1686.

Apollo Anglicanus,

THE

ENGLISH APOLLO:

Assisting

All Persons in the right Understanding of this Years Revolution, as also of things past, present, and to come.

With necessary Tables plain and useful.

A twofold Kalendar, *viz. Julian* or *English*, *Gregorian* or *Forein* Computations more plain and full than any other, with the Rising and Setting of the Sun, the nightly Rising and Setting of the Moon, and also her Southing, Exactly calculated for every day. Of general use for most men.

Being the Second after Bissextile *or Leap-Year.*

To which is added the Moons application to the fixed Stars: With the Calculations of the Eclipses: also Rules and Tables for the measureing of Timber: with many other things both useful and necessary.

Calculated according to Art, and fitted to the Meridian of *Leicester*, whose Latitude is 52 Degrees, 41 Minutes Exactly fitting all the middle Counties of *England*, and without sensible Error the whole Kingdom.

By RICHARD SAUNDERS.

Student in the Physical-Celestial Sciences.

LONDON, Printed by *M. Clark* for the Company of Stationers, 1686.

The *Julian* or old Account uſed in *Engl.*	1686.	The *Gregorian* or New Stile uſed beyond Sea.
15	The Golden Number.	15
C	The Dominical Letters	F
15	The Epact.	5
February 14	Shrove Sunday.	February 24
May 13	Aſcenſion-Day.	May 23
May 23	Whit-Sunday.	June 2
November 28	Advent-Sunday.	December 1

A Table of the four Terms and their Returns, &c.

Hilary-Term begins *January* 23. ends *February* 12.

Octab. Hillar. Jan. 21	January 21	Jan. 22	Jan. 23
Quind. Hillar. Jan. 28	January 28	Jan. 29	Jan. 30
Craſtin. Purif. Feb. 3	February 4	Febr. 5	Febr. 6
Octab. Purif. Feb. 10	February 11	Febr. 11	Febr. 12

Eaſter Term begins *April* 21. ends *May* 17.

Quind. Paſch. Apr. 19	April 20	April 21	April 21
Tres Paſch. April 26	April 27	April 28	April 29
Menſ. Paſch. May 3	May 4	May 5	May 6
Quinq. Paſch. May 10	May 11	May 12	May 13
Craſt. Aſcenſ. May 14	May 15	May 15	May 17

Trinity Term begins *June* 4. ends *June* 23.

Craſt. Trin. May 31	June 1	June 2	June 4
Octab. Trin. June 7	June 8	June 9	June 10
Quind. Trin. June 14	June 15	June 16	June 17
Tres Trin. June 21	June 22	June 22	June 23

Michaelmas Term begins *Octob.* 23. ends *Novemb.* 29.

Tres Mich. Octob. 20	Octob. 21	Octob. 22	October 23
Menſ. Mich. Octob. 27	Octob. 28	Octob. 29	October 30
Craſt. Anim. Nov. 3	Novemb. 4	Novemb. 4	Novemb. 6
Craſt. Mart. Nov. 12	Novemb. 13	Novemb. 15	Novemb. 16
Octab. Mart. Nov. 19	Novemb. 20	Novemb. 22	Novemb. 23
Quind. Mart. Nov. 26	Novemb. 27	Novemb. 27	Novemb. 29

A Table of the Kings and Queens of *England* since the Conquer.

Kings and Queens names.	Born Anno	*Began to reign.*	Reigned Y.	Reigned M	Since their Reigns ended.	Buried at
William 1	1023	1066, Oct. 14	20	11	591, Septem. 9	Caen No.
William 2	1057	1087, Sep. 9	12	11	586, Auguſt 2	Winchef.
Henry 1	1068	1100, Aug. 2	35	4	551, Decem. 1	Reding
Stephen	1105	1135, Dec. 1	18	11	532, Octob. 25	Feverſh.
The Saxon Line reſtor'd.						
Henry 2	1132	1154, Oct. 25	35	9	497, July 6	Fountever
Richard 1	1155	1189, July 6	9	9	487, April 6	Fountever
John	1165	1199, April 6	17	6	470, Octob. 19	Worceſter
Henry 3	1207	1216, Oct. 19	56	1	414, Nov. 16	Weſtmin.
Edward 1	1239	1272, No. 16	34	8	379, July 7	Weſtmin.
Edward 2	1283	1307, July 7	19	6	360, Jan. 25	Gloceſter
Edward 3	1312	1326, Jan. 25	51	5	309, June 21	Weſtmin.
Richard 2	1366	1377, Jun. 21	22	3	287, Septe. 29	Weſtmin.
The Line of Lancaſter.						
Henry 4	1367	1399, Sep. 29	13	6	273, Mar. 20	Canterb.
Henry 5	1388	1412, Mar. 20	9	5	264, Aug. 31	Weſtmin.
Henry 6	1421	1422, Aug. 31	38	6	226, Mar. 4	Windſor
The Line of York.						
Edward 4	1442	1460, Mar. 4	23	1	203, April 9	Wincheſt.
Edward 5	1471	1483, Apr. 9	0	1	203, June 18	Not kno.
Richard 3	1448	1483, Jun. 18	2	2	201, Aug. 22	Leiſt. (w.
The Families United.						
Henry 7	1455	1485, Aug. 22	23	8	178, April 21	Weſtmin.
Henry 8	1491	1508, Apr. 22	37	10	139, Jan. 28	Windſor
Edward 6	1537	1547, Jan. 28	6	5	133, July 6	Weſtmin.
Qu. Mary	1515	1553, July 6	5	4	128, Nov. 17	Weſtmin.
Qu. Elizab.	1533	1558, No. 17	44	4	84, March 24	Weſtmin.
The Union of the two Kingdoms.						
James	1566	1602, Ma. 24	22	0	67, March 27	Weſtmin.
Charles 1	1600	1625, Ma. 27	23	11	37, Janu. 30	Windſor
Charles 2	1630	1648, Jan. 30	35	0	1, Februar. 6	
James 2	1633	1684, Feb. 6	Whom God grant long to live.			

When *David* reign'd, as th' Scriptures do us tell,
Proud *Abſolom*, and great *Achitophel*
Did live and plot; and alſo in thoſe days
were other Plottings, ſuch as was *Sheba's*
Conſpiracy: (Methinks in this our age,
Men much like th ſe have paſſed o'er the Stage.)
As theſe did ſpeed in what they did, ſay I
Let all that ſtriv like them to live, ſo dye.

A Table shewing the hour and minute of the Moons coming to the South every day the first six Months of this Year, 1686.

Days.	Janua.		Februa.		March		April		May		June	
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.
1	1 M.	0	1	28	0 M.	38	2 M.	0	2	50	4	34
2	1	45	2	18	1	24	3	0	3	52	5	24
3	2	30	3	15	2	10	4	0	4	50	6	13
4	3	15	4	12	3	5	5	0	5	46	7	0
5	4	0	5	5	4	1	6	0	6	41	7	46
6	4	45	6	0	5	0	6	56	7	32	8	33
7	5	31	7	0	6	0	7	50	8	20	9	20
8	6	19	8	2	7	0	8	42	9	7	10	6
9	7	9	9	4	7	56	9	30	9	53	10	52
10	8	8	10	2	8	50	10	18	10	38	11	40
11	9	11	11	0	9	44	11	6	11	24	12	27
12	10	15	11	53	10	36	11	53	12	11	1 A.	19
13	11	20	12	45	11	27	12	40	1 A.	0	2	6
14	12	20	1 A.	36	12	18	1 A.	28	1	48	2	51
15	1 A.	15	2	26	1 A.	5	2	15	2	34	3	35
16	2	3	3	14	1	51	3	0	3	20	4	20
17	2	52	4	0	2	40	3	48	4	6	5	4
18	3	40	4	46	3	28	4	38	4	53	5	48
19	4	26	5	32	4	17	5	28	5	40	6	31
20	5	12	6	18	5	6	6	18	6	27	7	17
21	6	0	7	6	5	55	7	5	7	11	8	7
22	6	48	7	53	6	44	7	50	7	57	9	2
23	7	36	8	42	7	31	8	36	8	47	10	0
24	8	24	9	32	8	18	9	23	9	40	11	7
25	9	10	10	20	9	6	10	10	10	35	12	16
26	9	55	11	6	5	53	11	0	11	32	0 M.	16
27	10	37	11	52	10	40	11	53	12	33	1	18
28	11	18	12	38	11	27	12	5	0 M.	33	2	15
29	12	0			12	15	0 M.	50	1	38	3	10
30	0 M.	0			0 M.	15	1	50	2	41	4	2
31	0	43			1	6			3	41		

The Moons Southing for every day of the last Six Months of this Year 1686.

Days	July		August		Septemb.		October		Novemb.		Decemb.	
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.
1	4	M. 50	5	55	7	9	7	35	8	32	8	28
2	5	37	6	40	7	56	8	20	9	17	9	16
3	6	22	7	28	8	42	9	6	10	2	10	6
4	7	7	8	16	9	30	9	51	10	50	11	2
5	7	53	9	4	10	16	10	36	11	40	12	6
6	8	41	9	52	11	2	11	21	12	34	1	A. 10
7	9	30	10	40	11	48	12	7	1	A. 36	2	13
8	10	19	11	28	12	33	1	A. 0	2	36	3	11
9	11	9	12	15	1	A. 18	1	50	3	35	4	6
10	12	A. 0	1	A. 0	2	6	2	47	4	35	5	0
11	12	A. 45	1	45	2	56	3	45	5	30	5	48
12	1	30	2	30	3	48	4	44	6	23	6	33
13	2	15	3	18	4	44	5	42	7	10	7	21
14	3	0	4	6	5	42	6	41	7	58	8	10
15	3	48	4	53	6	41	7	35	8	46	9	0
16	4	32	5	44	7	41	8	26	9	34	9	48
17	5	16	6	42	8	40	9	15	10	22	10	36
18	6	0	7	42	9	36	10	4	11	10	11	24
19	6	48	8	44	10	30	10	53	12	0	12	13
20	7	46	9	45	11	22	11	43	☉	M. 0	☉	M. 13
21	8	50	10	42	12	11	12	33	0	53	1	1
22	9	52	11	38	☉	M. 11	☉	M. 33	1	43	1	48
23	10	55	12	34	1	1	1	25	2	30	2	32
24	12	0	☉	M. 34	1	50	2	17	3	15	3	16
25	☉	M. 0	1	30	2	38	3	7	4	0	4	0
26	0	57	2	22	3	27	3	55	4	45	4	40
27	1	45	3	12	4	16	4	44	5	30	5	20
28	2	35	4	0	5	6	5	32	6	15	6	3
29	3	24	4	48	5	57	6	19	7	0	6	50
30	4	14	5	34	6	49	7	3	7	42	7	40
31	5	4	6	20			7	47			8	33

To find the time of High-water in most Coasts of England.

FIrst seek the Moons Southing on the foregoing Table for your day, for then you may conclude it High-water at *Southampton*, *Quinborough*, and *Portsmouth*, for here the South and North Moons make a High-water. But when you desire the time of full Sea in any of the following Coasts in the ensuing Table, find the name of the place, and see how many hours and Minutes be annexed thereunto in the Column under H. M. which added to the time of the Moons coming to South, gives you the time of High-water for the place required.

A Tide Table, with the names of the Havens.

Rochester, Malden, Aberdeen,	0 *h.*	45 *m.*
Gravesend, Romney, Rankins,	1	30
London, Tinmouth, Hartlepool.	3	0
Frith, Leith, Dunbar, Narbon,	4	30
Newcastle, Falmouth, Humber,	5	15
Lyn, Antwerp, Plymouth, Hull,	6	0
Bristol, Lanion, Foulness,	6	45
Milford, Bridgwater, North-coast,	7	30
Portland, Peterport, Hartstew,	8	15
Dover, Yarmouth, Harwich, Dublin,	10	30
Callice, Rye, Winchelsey, Calsoot,	11	15

Example.

The 8. of *August* this Year it is required to know the time of High-Water at *London*: by the Table over against the 8. of *August*, I find the Moon South at 11 hours, 28 min. in the Morning: then in the preceding Tide-Table against *London*. I find 3 hours 0 minutes, which added to 11 hours 28 minutes, makes 14 hours 28 minutes, from which take 12 h. and there remains 2 h. 28 m. the time of High-water at *London* the 8. day of *August*, in the Afternoon. So of any other.

NOTE, That the Tide floweth one point of the Compass more at the New and Full of the Moon, than at the First and Last Quarters: as also the Latitude of the Moon and Wind may alter it an hour sooner or later.

Directions for the ſubſequent Diary or Almanack.

IN the firſt Column to the left hand on the left-hand Page you have the Numerical Figures of the days of the Month

In the ſecond Column you have the week days, and the Dominical Letter.

In the third Column you have the Saints days, and the places of the Planets once a Month; as alſo the Moons application to the fixed Stars, by which the Aſteriſms and Conſtellations may be eaſily known to an Ingenious eye and underſtanding.

In the fourth Column the Moons place in the Zodiack every day at noon.

In the fifth Column the Riſing and Setting of the Moon, with reſpect to her Latitude.

In the ſixth Column the Mutual Aſpects of the Planets, with the general ſtate of the Weather.

In the firſt Column on the Right hand Page you have the Engliſh Account.

In the ſecond Column you have the Roman Account.

In the third Column the Roman Week days.

In the fourth Column the perfect Roman Kalendar and Saints days.

In the fifth Column when the Good and Bad days, have formerly been ſet, you have the reaſon why they are now omitted, *&c.*

The ſixth, ſeventh, and eighth Columns, the utmoſt to the Right hand, ſhew you the daily Riſing and Setting of the Sun.

To find the time of High-water in moſt Coaſts of England.

FIrſt ſeek the Moons Southing on the foregoing Table for your day, for then you may conclude it High-water at *Southampton*, *Quinborough*, and *Portſmouth*, for there the South and North Moons make a High-water. But when you deſire the time of full Sea in any of the following Coaſts in the enſuing Table, find the name of the place, and ſee how many hours and Minutes be annexed thereunto in the Column under H. M. which added to the time of the Moons coming to South, gives you the time of High-water for the place required.

A Tide Table, with the names of the Havens.

	h.	m.
Rocheſter, Malden, Aberdeen,	0	45
Graveſend, Romney, Ramkins,	1	30
London, Tinmouth, Hartlepool,	3	0
Frith, Leith, Dunbar, Narbon,	4	30
Newcaſtle, Falmouth, Humber,	5	15
Lyn, Antwerp, Plymouth, Hull,	6	0
Briſtol, Lanion, Foulneſs,	6	45
Milford, Bridgwater, Nyrth-coaſt,	7	30
Portland, Peterport, Hartſlew,	8	15
Dover, Yarmouth, Harwich, Dublin,	10	30
Callice, Rye, Winchelſey, Calſoot,	11	15

Example.

The 8. of *Auguſt* this Year it is required to know the time of High-Water at *London*: by the Table over againſt the 8. of *Auguſt*, I find the Moon South at 11 hours, 28 min. in the Morning: then in the preceding Tide-Table againſt *London*, I find 3 hours 0 minutes, which added to 11 hours 28 minutes, makes 14 hours 28 minutes, from which take 12 h. and there remains 2 h. 28 m. the time of High-water at *London* the 8. day of *Auguſt*, in the Afternoon. So of any other.

NOTE, That the Tide floweth one point of the Compaſs more at the New and Full of the Moon, than at the Firſt and Laſt Quarters: as alſo the Latitude of the Moon and Wind, may alter it an hour ſooner or later.

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The ſixth, ſeventh, and eighth Columns, the utmoſt to the Right hand, ſhew you the daily Riſing and Setting of the Sun.

January hath xxxi. days.

☾ Last quarter the 7. day, 30. m. Afternoon.
● New Moon the 14. day, at 5 in the Morning.
☽ First quarter the 21. day, at 8 in the Morning.
○ Full Moon the 29. day, at 45 past Noon.

1	a	New years day	leo	11	5	A	28	
2	b	☽ n. Cor leonis	leo	2	6		3	
3	☾	2 Sun. p. Christ.	virgo	6	7		52	Moon Rising.
4	d	♌ ♊ 17.	virgo	18	9		4	
5	e	☽ n. Rum. V. M.	libr.	1	10		18	
6	f	Twelfth day	libr.	14	11		3	
7	g	☽ n. luc. Coron.	libra	2	1		0	
8	a	☽ n. Sou. Ballan.	scor.	11	1	M.	[illegible]	
9	b	Sol in Aquar.	scor.	2	2		2	
10	☾	1 Sun. past Epiph.	sagit.	15	3		56	
11	d	♄ ♍ 29 R.	sagit.	25	5		18	
12	e	♃ ♏ 20	capri.	1	6		32	
13	f	Hillary	capri.	25	7		34	
14	g	♂ ♈ 0	aqua.	1	New	●		—
15	a	♀ ♓ 23	aqua.	24	5	A	4[illegible]	
16	b	☿ ♒ 15 R.	pisc.	[illegible]	7		[illegible]	
17	☾	2 past Epiph.	pisc.	2[illegible]	8		2[illegible]	
18	d	☽ n. R. sh. Cep.	aries	6	9		5	
19	e	☽ n. Gir. Andr.	aries	19	11		8	Moons Setting.
20	f	☽ n. Gir. Ceph.	taur.	2	12		26	
21	g	☽ n. S. F. Andr.	taur.	14	1	M.	26	
22	a	☽ n. 7. Stars	taur.	26	1		42	
23	b	Term begins	gem.	8	2		54	
24	☾	3. Sun. p. Epiph.	gem.	2	4		3	
25	c	Conv. S. Paul	canc.	2	5		10	
26	e	☽ n. Castor	canc.	14	5		0	
27	f	☽ n. Procyon	canc.	26	6		40	
28	g	☽ n. Assellus	leo	8	7		51	
29	a	☽ n. Cor Leon	leo	2[illegible]	Full	●		—
30	b	K. Char. I. Mar.	virgo	2	5	A	44	
31	☾	Septuagesim.	virgo	15	5		54	

The Year begins with Wind and stormy wea. aft. which we may expect a moder. & seasonab. time, but ab. the 9 d. △ ☉ ♄ expect Wind and Snow or Rain, & right △ ♃ ♀ winterly weath. and about ☍ ♄ ♂ the new M. great variety of weather, and probably good store of moisture with Wind, and ☌ ☉ ☿ afterwards cloudy. Cold and ☍ ♄ ♀ dark ✶ ♂ ☿ weather for some dayes with no great alteration till toward the Full Moon, then expect frosty and Cold, yet □ ☉ ♃ seasonable weather.

JANUARY, 1686.

Saturn at the beginning is South at 4 in the morning, at the end he is South 30 m. before 3.
Jupiter sets betwixt 2 and 3 in the morning.
Mars followeth the Sun and sets between 9 and 10.
Venus followeth the Sun, and sets between 8 and 9 at Night.
Mercury is hid under the Sun Beams.

English Accom.	Roman Accompt.	Rom. Kalendar.	Rom. Sun. Days.							
1	11	♑	d	Hyginus	I have for several years	1	☌	7	3	53
2	12	♑	e	Satyrius	past (in this Column) set	2		5		55
3	13	♑	f	2 aft. Epiph.	short Notes, which should	3		4		56
4	14	♑	g	Felix	have been as Indices to	4		2		58
5	15	♑	a	Maurus	have pointed at the	5	8	1	3	59
6	16	♑	b	Marcellus	good and bad Days	6	7	59	4	1
7	17	♑	c	Anthony	throughout the Year,	7		58		2
8	18	♑	d	Prisca	which I did only in con-	8		57		3
9	19	♑	e	Wolstan	formity to the method	9		55		5
10	20	♑	f	3 past Epiph.	of my Predecessor, and	10		53		7
11	21	♑	g	Agnes	at the request of the Sta-	11		52		8
12	22	♑	a	Vincent	tioners, they were by me	12		50		10
13	23	♑	b	Emerent	unwillingly continued,	13		49		11
14	24	♑	c	Timothy	they were deduc'd (as you	14		47		13
15	25	♑	d	*Conv. S. Paul*	was told in the Title of	15		46		14
16	26	♑	e	Polycarp	the Column in *February*)	16	7	44	4	16
17	27	♑	f	4 aft. Epiph.	from the Aspects which	17		43		17
18	28	♑	g	Car. Mag.	the Moon made with the	18		41		19
19	29	♑	a	Samuel	other Planets: But by	19		39		21
20	30	♑	b	Apollon.	frequent Observations I	20		38		22
21	31	♑	c	Virgilius	have found the vanity	1		36		24
22	Feb.	♒	d	Bridg. Fast	thereof, having often	22		34		26
23	2	♒	e	Purif. Mary	known the various As-	23		33		27
24	3	♒	f	5 aft. Epiph.	pairs and Proceedings of	24		31		29
25	4	♒	g	Methusal.	many other Men, as well	25		29		31
26	5	♒	a	Agatha	as my own, to prosper as	26	7	27	4	33
27	6	♒	b	Dorothea	well when the Moon has	27		25		35
28	7	♒	c	Zachary	been in Opposition or	28		23		37
29	8	♒	d	Paul Bish.	Quartile (which are the	29		21		39
30	9	♒	e	Apollon.	bad Aspects) with *Saturn*	30		19		41
31	10	♒	f	Septuages.	and *Mars*, as when he hath	31		17		43

February hath xxviii. days.

☾ Last quarter the 5. day 30. m. past 11. at night.
● New Moon the 12. day, 30 min. past 3 in the aftern.
☽ First quarter the 20 day, 15 m. past 3 in the morning.
● Full Moon the 28 day, 30 min. past 4 in the morning.

Mon. Day.	Week Da.	Festival & Saints days, with the ☽s applicatio. to the noted fix'd stars.	The ☽s place in zodiack at Noon	The ms rising fro. the full to the change, & setting fr. the cha. to the F.	The mutu. As of the Plan. with the var. const. of air & cha. of wet.
1	d	☽ n. Vindemia	virg. 28	8 A 4	Seasonable at
2	e	Purif. Mary	libra. 11	9 29	the beginning of
3	f	☽ n. Virg. Spi.	libra. 25	10 42	the Month, but
4	g	☽ n. luc. Coron.	scorp. 8	12 7	about the Fifth
5	a	☽ n. R. sh. her.	scorp. 22	0 M. 7	Stormy, with
6	b	☽ n. Cor. Stor.	sagit. 6	1 34	Cold and Cloudy
7	☾	Sexagesim.	sagit. 20	3 0	weather for a
8	d	Sol in Pisces	capri. 4	4 20	time, is expe-
9	e	♄ ♍ 28.	capri. 19	5 22	cted, and to-
10	f	♃ ♏ 22	aquar. 3	6 11	ward the new
11	g	♂ ♈ 20	aqua. 18	6 42	Mooon, we
12	a	Term ends	pisces 3	N [illegible]	may also have
13	b	♀ ♈ 20	pisc. 17	5 A 7	Wind and moist
14	☾	Quinquages.	aries 1	7 30	weather, but af-
15	d	☿ ♒ 10	aries 14	8 50	terwards it is
16	e	Shrove Tuesday	aries 27	10 9	hoped we may
17	f	Ash Wednesday	taur. 10	11 26	have more calm
18	g	☊ ♊ 15	taur. 22	12 M 41	and seasonable
19	a	☽ n. Aldebar.	gem. 4	0 41	Weather, yet
20	b	☽ n. Aliot.	gem. 16	1 52	cold and cloudy,
21	☾	Quadragesim.	gem. 28	2 55	with now and
22	d	☽ n. Syrius	canc. 10	3 53	then some mois-
23	e	☽ n. Procyon.	canc. 22	4 43	ture, or else no
24	f	S. Matthias	leo 4	5 24	great alteration
25	g	Emberweek	leo 16	5 54	□ ♃ ☿ till
26	a	☽ n. cor. leon.	leo 29	6 15	toward the end,
27	b	☽ n. Caud. leon.	virg. 11	6 30	which produ-
28	☾	2 Sund. in Lent	virg. 24	Full [illegible]	ceth windy
					Weather.

Moons Rising — Moons Setting.

FEBRUARY, 1686.

Saturn is South between 1 and 2 in the morning. *Jupiter* is South about 5 in the morning, he riseth between 12 and 1. *Mars* and *Venus* are near together, they follow the Sun, and set between 9 and 10 at night. *Mercury* riseth before the Sun, and may be seen in the Sou. Ea

English Accompt.	Foraign Accompt	Roman Kalendar	Roman Saints days.	*Ferie, state & concept.*	M.D	☉ ri.	☉ se.
1	11	g	Euphrosina.	Sextile with *Jupit.* or *Ven.*	1	7 16	4 44
2	12	a	Severin	and tho those short notes	2	14	46
3	13	b	Agabus	have sometimes seemed	3	12	48
4	14	c	Valentine	to hit or foretel the suc-	4	10	50
5	15	d	Faustin	cess in some mens Affa.	5	8	52
6	16	e	Juliana	yet they have very often	6	6	54
7	17	f	Sexages.	much failed, & all things	7	4	56
8	18	g	Concord.	have fallen as contrarily	8	7 2	4 58
9	19	a	Sabine	as possibly could be ima-	9	7 0	5 0
10	20	b	Eucharist	gined: For this reason, as	10	5 58	2
11	21	c	Esaias	I never fancied them, so	11	56	4
12	22	d	Peters Ch.	have I now omitted 'em.	12	54	6
13	23	e	Policarp	And lest I should be	13	52	8
14	24	f	Quinquag.	S. Matthias. thought to	14	49	10
15	25	g	Victor. M	give credit to'th vain &	15	47	13
16	26	a	Shrove-tu.	foolish Fancies and Ima-	16	45	15
17	27	b	Ash-wedn.	ginations of some, or to	17	43	17
18	28	c	Macar	the ridiculous Foperies	18	5 41	5 19
19	Marc		David	of others that have call'd	19	39	21
20	2	e	Chad	themselves Astrologers,	20	37	23
21	3	f	Quadrage.	I have also forborn wri-	21	34	26
22	4	g	Adrianus	ting any Astrological	22	32	28
23	5	a	Eusebius	judgments, excepting	23	30	30
24	6	b	Frederick	some conjectures at the	24	28	32
25	7	c	Felicitas	Weather only. Indeed	25	26	34
26	8	d	Cyprian	there has been some A-	26	6 24	36
27	9	e	Prudence	strologers that have pre-	27	2	38
28	10	f	Reminiscer.	tended to purge Astro-	28	20	4
				logy from the dreggs,			

March hath xxxi. days.

☾ Last Quarter the 7 day, at 6 in the morning.
☽ New Moon the 14. day, at 3 in the morning.
☽ First quarter the 22 day, at 1 in the morning
● Full Moon the 29 day, at 5 in the Afternoon.

1	d	☽ n. Vindemiat	libra	8	7	18	Expect good
2	e	☽ n. Virg. Spi.	libra	21	8	38	△ ☉ ♃ March
3	f	☽ n. luc. Coron.	scorp.	5	10	0	✱ ♀ ☿ weather
4	g	☽ n. R sh. hert.	scorp.	19	11	30	till the 4 or 5 d.
5	a	☽ n. l. ku. Oph.	sagit.	2	12	56	then (if) I be not
6	b	☽ n. R. sh. Op.	sagit.	17	0	M. 56	☍ ☽ ♄ mistak-
7	☾	3 Sund. in Lent	capr.	0	2	13	✱ ♂ ☿ en) be-
8	d	♄ ♍ 26.	capr.	14	3	22	ginneth windy,
9	e	♃ ♏ 23	capr.	29	4	13	stormy, and wet
10	f	Sol in aries	aqua	13	4	54	Weath. which it's
11	g	♂ ♉ 10	aqua.	27	5	22	fear'd may con-
12	a	♀ ♉ 4 R.	pisces	11	5	41	tinue for some
13	b	☿ ♓ 17	pisces	25	6	0	da. But about the
14	☾	Midlent Sunday	aries	9	New	●	New Moon 'tis
15	d	☊ ♊ 14	aries	22	7	A. 52	hoped we may
16	e	☽ n. So. F. And.	taur.	5	9	16	△ ♃ ☿ have a
17	f	☽ n. cap. Med.	taur.	18	10	35	more seasonable
18	g	☽ n. Aldebar.	taur.	29	11	45	☍ ♄ ☿ time, yet
19	a	☽ n. Achaiot	gem.	12	12	50	sufficiently win-
20	b	☽ n. R. sh. Aur.	gem.	24	0	M. 50	dy these days, af-
21	☾	5 Sund. in Lent	canc.	6	1	52	terwards a more
22	d	☽ n Pollux	canc.	18	2	46	pleasant Season,
23	e	☽ n. Asellus	leo	0	3	30	but towards the
24	f	☽ n. Cor Hyd.	leo	12	4	0	end of the month
25	g	Annunti. B. M.	leo	24	4	24	great variety of
26	a	☽ n. Ru. nis. m	virg.	7	4	44	Weather with
27	b	☽ n. Caud leon.	virg.	20	5	[illegible]	☍ ♃ ♂ Winds
28	☾	Palm Sunday	libr.	3	5	16	and frequent
29	d	☽ n. Virg. Sp.	libr.	17	Full	●	showers of Rain
30	e	☽ n. luc. coron.	scorp.	1	7	44	☌ ☉ ☿ are ex-
31	f	☽ n. N. Ball	scorp.	15	9	16	pected.

Moons Rising. — Moons Setting.

Saturn is South between 11 and 12 at night.
Jupiter riseth between 10 and 11 at night, and is South about 3 in the morning.
Mars and *Venus* follow the Sun.
Mercury at the beginning riseth before the Sun, but at the end he is combust.

English Accom.	Rom. Accom.	Rom. Kalendar.	Rom. Ses. Days.							
1	11	g	Cumbert	and to give us the Oar	1	5	1	5	42
2	12	a	Gregorius	without the Dross;	2		16		44
3	13	b	Ernestus	and yet have shewed	3		14		46
4	14	c	Eutychus	themselves as strangely	4		12		48
5	15	d	Longine	fanciful as others, whilst	5		10		50
6	16	e	Cyriacus	they have made Ob-	6		8		52
7	17	f	Paul.	servations of the Pla-	7		6		54
8	18	g	Gabriel	netary hours, (as they	8		4		56
9	19	a	Joseph	call them) the Consig-	9		2		58
10	20	b	Rupert	nificators of the Houses,	10	6	0	6	0
11	21	c	Benedict	the Faces or Decanates	11	5	58	6	2
12	22	d	Paulinus	of the Planets, all which	12		56		4
13	23	e	Godfridus	are but the imaginati-	13		54		6
14	24	f	Lætare	ons of fanciful Men, their	14		52		8
15	25	g	An. B. V. M.	order of Assignation be-	15		50		10
16	26	a	Castulus	ing grounded upon a	16		48		12
17	27	b	Jo. Erem.	false Hypothesis, *viz.* ac-	17		46		14
18	28	c	Gideon	cording to that ranging	18		44		16
19	29	d	Eustace	of the Planets that is in	19		42		18
20	30	e	Guido	*Ptolemies* System them thus,	20	5	40	6	20
21	31	f	Judica	whilst *Ramesey* in his In-	21		38		22
22	Apr.	g	Theodore	troduction to the Judg-	22		36		24
23	2	a	Mary Egyp.	ment of the Stars *Cap.* 5.	23		34		26
24	3	b	Gispian	the second face of Aries	24		32		28
25	4	c	Ambrose	is given to the Sun, be-	25		30		30
26	5	d	Vincent	cause he followeth *Mars*	26		27		33
27	6	e	Sixtus	in course, and is located	27		25		35
28	7	f	Palm Sun.	under him in the Hea-	28		23	6	37
29	8	g	Dionysius	vens. The next Face	29	5	21		39
30	9	a	Albanus	to *Venus* for the same	30		18		42
31	10	b	Ezekiel	reason, *&c.* not consi-	31		16		44

April hath xxx. days.

☽ Laſt quarter the 5. day, 20 m. paſt 1 in the aſtern.
● New Moon the 12 day, at 4 in the afternoon.
☾ Firſt quarter the 20 day, at 6 in the afternoon.
● Full Moon the 28 day, at 3 in the morning.

1	G	☽ n. L.ha. Op.	ſcorp. 25	10	44				△ ♄ ♂ Showry
2	a	☽ n. Head Op.	ſagit. 13	12	8				and right *April*
3	b	☽ n. Lyra	ſagit. 27	☌ M.	8				☿ ☌ ♀ weath. at
4	C	Eaſter day	capri. 11	1	22				the beginning of
5	d	☽ n. Br. ✱ vult.	capri. 25	2	22				♂ ☉ ☌ the mon.
6	e	☽ n. Sw. wing.	aquar. 9	3	13				and generally
7	f	☽ n. Pegaſ. mo.	aqua. 23	3	22				good ſeaſonable
8	g	☽ n. Tai. Swan	piſces 7	3	55				weath. theſe da.
9	a	☽ n. Marchab.	piſce 21	4	14				and probably no
10	b	Sol in Taurus	aries 4	4	31				great alteration
11	C	Low Sunday	aries 18	4	47				till aft. the new
12	d	♄ ♍ 24.	taur. 1	New ●					Moon; then we
13	e	☿ ♍ 20.	taur. 13	☽ A.	12				may expect brisk
14	f	♂ ♊ 4.	taur. 26	9	32				♂ ♃ ♀ gales of
15	g	♀ ♈ 20.	gem. 8	10	42				wind with moiſt
16	a	☿ ♉ 23.	gem. 19	11	44				△ ♄ ☿ Air and
17	b	☊ ♊ 12.	canc. 2	12	42				ſome driſſings
18	C	2. paſt Eaſter	canc. 15	☽ M.	44				which being over
19	d	☽ Procyon.	canc 26	1	34				we then may
20	e	☽ n. Aſellus	leo 8	2	2				have a moderate
21	f	Term begins	leo 20	2	36				fair ſeaſon, and
22	g	☽ n. R. Ur. Ma	virgo 2	3	3				pleaſant Weath.
23	a	S. George	virgo 14	3	1				for ſome days:
24	b	☽ n. Vind. miat	virg. 28	3	30				But towards the
25	C	St. Mark	libra 11	3	45				end, eſpecially a-
26	d	☽ n. Spik. Virg.	libra. 25	4	0				bout the 28 day
27	e	☽ n. luc. Cor.	ſcorp. 9	4	15				Windy and Stor-
28	f	☽ n. le. ha. Oph.	aqua. 23	Full ●					♂ ☉ ♃ my wea-
29	g	☽ n. Head Hear	ſagit 8	☽ A.	48				ther, or I have
30	a	☽ n. R. ſh. Oph.	ſagit. 23	11	14				gueſſed amiſs.

Moons R. Reg. | Moons Setting.

Saturn is South betwixt 9 and 10 at night, and sets betwixt 3. and 4. in the morning. *Jupiter* at the end is South at midnight. *Venus* is combust. *Mercury* emergeth from the Sun-beams, and at the end of the moth he may be seen after Sun setting.

English Accom.	Foraig. Accom	Rom. Kalendar	Rom. St. days							
1	11	c	Leo, Pap.	dering that both the	1	5	14	5	46
2	12	d	July Bish.	Sun, and *Mercury* are	2		12		48
3	13	e	Justinus	sometimes (as in *May*	3		10		50
4	14	f	Pascha	last) twice as far from	4		8		52
5	15	g	Olympia	the earth as *Mars*, and	5		6		54
6	16	a	Carisius	*Venus* three times as far.	6		4		56
7	17	b	Anicetus	How considerate also	7		2	6	58
8	18	c	Apollon	the Planets are imagin-	8	5	0	7	0
9	19	d	Timothy	edto be, that when they	9	4	58	7	2
10	20	e	Sulpitius	have taken their turns	10		56		4
11	12	f	Quasimod.	according to this false	11		54		6
12	22	g	Emanuel	supposition, they'll rule	12		52		8
13	23	a	S. George	but for a time, and that	13		50		10
14	24	b	Albertus	proportionable to the	14		48		12
15	25	c	S. Mark	length of the da. in ev'ry	15		46		14
16	26	d	Cletus	Climate. And now what	16		44		16
17	27	e	Anastasius	great regard must behad	17		42		18
18	28	f	Miser cord.	to'th planetary hour ap-	18	4	41	7	19
19	29	g	Sybilla	pears by their several	19		39		21
20	30	a	Josua	writings, especial. in tak.	20		37		23
21	May		S. Phil. & Ja.	Journeys, as *W. Ramsey* in	21		36		24
22	2	c	Athanasius	his Introduct. to Elect.	22		34		26
23	3	d	Inv. Crucis	S. 4. c. 1. be sure that your	23		33		27
24	4	e	Florian	Lord of'th ho. be no ways	24		31		29
25	5	f	Jubilate	impedited, or weak, *&c.*	25	4	30	7	30
26	6	g	Jo. à Port	& oth. in their choice A-	26		28		32
27	7	a	Juvenal	phoris. take particu. heed	27		26		34
28	8	b	Stanislaus	to'th Lord o'th hou. for if	28		25		35
29	9	c	Hiobe	he be impedited when	29		23		37
30	10	d	Pancratius	you take a Journ. it will	30		21		39

☾ Laſt quarter the 4 day, at 8 at night.
● New Moon the 12 day, 15 min. paſt 6 in the morn.
☽ Firſt quarter the 20 day, at 10 in the morning.
○ Full moon the 27 day, at 11 in the morning.

1	b	S. Phil. & Jacob	capri	7	12	17			Cloudy with
2	☾	4 paſt Baſter	capri	2	☽ M	17			cooling Gales
3	d	☽ n. lu. w. S.v.	aquar	6	1	4			△ ☉ ♄ of Wind
4	e	☽ n. lo. w. S.v.	aquar	2	1	4			and ſomedriſling
5	f	☽ n. S.v. Full	piſces	4	2	7			Rain about the
6	g	☽ n. Mannab.	piſces	1	2	27			4th or 5th. days
7	a	♄ ♍ 23.	aries	1	2	4			afterwards more
8	b	♃ ♍ 17.	aries	14	3	8			✶ ♂ ♀ warm
9	☾	Rogat. Sunday	aries	27	3	1			with calm and
10	d	♂ ♊ 21.	taur	9	3	30			pleaſant weath.
11	e	Sun in Gem.	taur	22	3	45			theſe days.
12	f	♀ ♈ 22.	gem	4	New ●				☉ Ecclip inviſ.
13	g	Aſcentio Dom.	gem	16	☽ A.	40			□ ♄ ♂ About
14	a	☿ ♊ 12. R.	gem	28	10	4			the New Moon
15	b	☊ ♊ 10.	cance	10	11	38			we may expect
16	☾	6 paſt Baſter	cance	23	12	10			ſome Showers
17	d	Term ends	leo	4	☉ M	10			of Rain, and
18	e	☽ n. Cor H. dr.	leo	16	0	42			other whiles
19	f	☽ n. Cor leo.	leo	28	1	0			ſome briſk gales
20	g	☽ n. Ru V r. Ma.	virg.	10	1	17			♂ ☉ ♀ of wind
21	a	☽ n. Ex. Ca. leo	virg.	23	1	33			and variety of
22	b	☽ n. Vindemiat	libra	5	1	48			Weather, one
23	☾	Whitſunday	libra	17	2	2			while hot, other
24	d	☽ n. luc. Coron.	ſcorp.	3	2	18			times cold for
25	e	☽ n. luc. Co. S.	ſcorp.	17	2	38			the ſeaſon, with
26	f	*Ember Week*	ſagit	2	3	0			ſhowers of Rain
27	g	☽ n. head Oph.	ſagit.	17	Full ○				☽ Ecclipſ. inviſ.
28	a	☽ n. B. ✶ lyra	capr.	2	10	4			towards the Full
29	b	K. Charl. II. N. R.	capri.	17	11	0			Moon, but afterw.
30	☾	Trinity Sunday	aqua.	2	11	46			ſeaſonable wea-
31	d	☽ n. le. ſho. ♒	aqua.	16	12	14			ther to the end.

Moons Rising. — Moons Setting.

Saturn *is South between* 7 *and* 8 *at night, and sets between* 1 *and* 2 *in the Morning.* Jupiter, *at beginning is South betwixt* 11 *and* 12, *at the end he is South between* 9 *and* 10 *at night.* Mars *sets about half an hour after* 9. Venus *riseth before the Sun.* Mercury *toward the end is Combust.*

Rom. Accompt.	Rom. Kalendar.	Rom. Saints da.								
1	11	e	Christian	It will do as much harm as	1	4	19	7	41
2	12	f		when the Lord of the Ho-	2		17		43
3	13	g	Servatius	roscope is so, And though	3		15		45
4	14	a	Fortuna	these have been taken up-	4		14		46
5	15	b	Sophia	on this false ground, yet	5		12		48
6	16	c	Peregrine	hath Credulity since fanci-	6		10		50
7	17	d	Jodocus	ed them to be confirmed	7		9		51
8	18	e	Venant.	by Experience. So strangly	8		8		52
9	19	f		phanciful are others that	9	4	6	7	54
10	20	g	Benard.	they have concluded, that	10		5		55
11	21	a	Prudent.	from the motions and posi-	11		3		57
12	22	b	Helena	tions of Imaginary points	12		2		58
13	23	c		should be produced Real	13		1		59
14	24	d	Esther	effects, such as the Nodes	14	4	0	8	0
15	25	e	Urbanus	of the Moon (commonly	15	3	59		1
16	26	f		called the Head and Tail	16		58		2
17	27	g	Beda	of the Dragon) the Aphe-	17		57		3
18	28	a	Wilhelm	lions of the Planets ('tis	18		55		5
19	29	b	Maximia	strange that the Apogæon	19		54		6
20	30	c	Wigand	of the Moon and the Nodes	20		53		7
21	31	d	Petronell	of the other Planets have	21		52		8
22		e	Nicodem.	not their effect also) The	22		51		9
23	2	f		Head and Tail of the *Dra-*	23		50		10
24	3	g	Erasmus	*gon* have their Exaltations,	24		49		11
25	4	a	Quirinus	according to the Opinion	25	3	48	8	12
26	5	b	Boniface	of *Ptolomy* and *Albumazer*;	26		47		13
27	6	c	Artemid.	And in the 24 Aphorism of	27		46		14
28	7	d	Paul Ep.	that Cent. father'd upon	28		45		15
29	8	e	Medardus	*Hermes* is told how apt they	29		45		15
30	9	f		are to do mischief being in	30		44		16
31	10	g	Onufrius	♊ & ♐. And in the 66 Aph.	31		44		16

☾ Last Quarter the 3 day, at 2 in the morning.
● New Moon the 10 day 30 min. past 9 at night.
☾ First Quarter the 18 day, at midnight.
● Full Moon the 25 day, at 6 in the afternoon.

1	e	☽ n. Swan tail	pisces	0	0	M	14	Moons Rising.
2	f	☽ n. Marchab.	pisces	14	0		30	
3	g	☽ n. Scheat	pisces	28	0		48	
4	a	Term begins	aries	11	1		5	
5	b	☽ n. Gird. And	aries	24	1		20	
6	☾	1 S. past Trin.	taur.	6	1		35	
7	d	☽ n. Cap. Med.	taur.	19	1		50	
8	e	☽ n. Aldebar.	gem.	1	2		7	
9	f	☽ n. Alhinot	gem.	13	2		30	
10	g	☽ n. Right sh. A.	gem.	25	New ●			
11	a	St. Barnab.	canc.	6	9	A	20	
12	b	St. Sol in Canc.	canc.	19	10		4	
13	☾	2 past Trinity.	leo	1	10		38	
14	d	☽ n. Cor. Hydr.	leo	13	11		2	
15	e	☽ n. Cor. Leon.	leo	25	11		20	Moons Setting.
16	f	♄ ♍ 24.	virg.	7	11		35	
17	g	♃ ♏ 13	virg.	19	11		48	
18	a	♂ ♋ 16	libra	1	12		2	
19	b	♀ ♉ 21	libra	14	0	M	2	
20	☾	3 past Trinity.	libra	28	0		16	
21	d	☿ ♊ 19	scor.	11	0		30	
22	e	☊ ♊ 8	scor.	25	0		49	
23	f	Term ends.	sagit.	10	1		18	
24	g	St. Jo. Baptist.	sagit	25	2		0	
25	a	☽ Br. ✶ lyra	capr.	10	Full ●			
26	b	☽ n. Luc. Vult.	capr.	25	9	A	30	M. Rising.
27	☾	4 S. past Trin.	aqua.	10	10		4	
28	d	☽ n. Pega. Mon.	aqua.	25	10		30	
29	e	St. Peter.	pisces	10	10		48	
30	f	☽ n. Scheat	pisces	24	11		4	

Some drising ✶ ♂ ♀ Rain at the beginning of □ ☉ ♄ the Month, with Cloudy-weather for some days after; But towards the New Moon ☍ ♃ ♀ an increase of heat may be expected △ ♃ ♂ and in all probability some Thunder too, not unseasonable, after which some pleasant Gales of Wind, with some △ ♄ ♀. Showers about the 22d day, after wards good △ ☉ ♃ and plea- □ ♄ ☿ sant weather, with some Mists or drisling Rain about the 28th ✶ ♄ ♂ day.

Saturn *setteth between* 11 *and* 12 *at night.*
Jupiter *is South between* 9 *and* 10 *at night, and sets about* 1 *in the Morning.*
Venus *riseth between* 1 *and* 2 *in the morning.*
Mars *is hid under the Sun-beams.*
Mercury *Emergeth from the Sun-beams.*

Egl. accompt.	Rom. Accompt.	Rom. Kalendar.	Rom. Saints da								
1	11	a	St. Barnab.	Of the ſame Cent. Is	1	3	44	8	16
2	12	b	Blandin.	told what miſchiefs they	2		43		17
3	13	c	Cyrillus	do, being joyned to the	3		43		17
4	14	d	Valerius	Planets; and in the Wri-	4		42		18
5	15	e	Vitus	ings of almoſt all Aſtro-	5		42		18
6	16	f	1 p. Trin.	logers you ſhall have an	6		42		18
7	17	g	Volcman.	account of their ſuppoſed	7		42		18
8	18	a	Homer	effect; what can theſe be	8		41		19
9	19	b	Gervaſius	but the Dotages and Fi-	9		41		19
10	20	c	Regina	ctions of Brainſick-men.	10		41		19
11	21	d	Alban	And for the Aphelions of	11	3	41	8	19
12	22	e	Achatius	the Planets, *J. Holwell* in	12		41		19
13	23	f	2 p. Trin.	his *Cataſtrophe Mundi* tells	13		41		19
14	24	g	St. John Bap.	us what ſtrange effect	14		41		19
15	25	a	Elogius	are wrought by their	15		42		18
16	26	b	Jeremias	paſſing out of one Sign	16		42		18
17	27	c	7 Dorm.	into another; moſt of his	17		42		18
18	28	d	Leo. *Faſt*	Predictions there are	18	3	42	8	18
19	29	e	St. Peter	drawn from other Obſer-	19		43		17
20	30	f	3 p. Trin.	vations. But, as his Im-	20		43		17
21	July		Theobald	pudent Expreſſions do	21		44		16
22	2	a	Viſit. V. M.	ſhew from what kind of	22		44		16
23	3	b	Cornelius	Fountain they have flow-	23		44		16
24	4	c	Ulricus	ed; ſo doth the falſity of	24		45		15
25	5	d	Anſelm	his Predictions ſhew what	25	3	45		15
26	6	e	Hector	Sandy foundations he hath	26		46	8	14
27	7	f	4 p. Trin.	built upon. Such ſtumbling	27		47		13
28	8	g	Chilian.	blocks have they laid in	28		48		12
29	9	a	Cyrillus	the Heavens, that a Planet,	29		49		11
30	10	b	7 Brethren	or the Aphelion of a Pla-	30		50		10

☾ Last Quarter the 2 day, at 20 min. past 11 in the morning.
● New Moon the 10 day, 45 minutes past noon.
☽ First Quarter the 18 day, at 10 in the morning.
○ Full Moon the 25 day, at 1 in the morning.
☾ Last Quarter the last day, at midnight.

1	g	☽ n. hea. Andr.	aries	8	11		19		
2	a	☽ n. gird. Andr.	aries	21	11		32		
3	b	☽ n. to so. And.	taurus	3	11		47		
4	c	's part Trinity.	taur.	16	12		5		
5	d	☽ n. 7 Stars.	taur.	28	0	M	5		
6	e	☽ n. Aldebar.	gem.	10	0		28		
7	f	☽ n. R. sh Aur.	gem.	22	1		0		
8	g	☽ n. Syrius	canc.	4	1		38		
9	a	☽ n. Procyon.	canc.	16	2		22		
10	b	☽ n. Aselli.	canc.	28					
11	c	's part Trinity	leo	10	9	A	0		
12	d	☾ n. Cor. Leo	leo	22	9		22		
13	e	Sol in Leo.	virg.	4	9		40		
14	f	☿ ♍ 26	virg.	16	9		56		
15	g	Swithin	virg.	28	10		10		
16	a	♃ ♍ 13	libr.	11	10		24		
17	b	♂ ♎ 5	libr.	24	10		38		
18	c	's part Trinity	scorp.	7	0		55		
19	d	♀ ♊ 23	scorp.	20	11		17		
20	e	☿ ♎ 15	sagit.	4	11		46		
21	f	☊ ♊ 7	sagit.	19	12		26		
22	g	☽ n. luc. lyra.	capr.	3	0	M	26		
23	a	☽ n. luc. Vultur.	capr.	18	1		20		
24	b	☽ n. h. wi. Sw.	aqua.	4	2		37		
25	c	St. James.	aqua.	19					
26	d	☽ n. Sw. Tail	pisces	4	8	A	48		
27	e	☽ n. Marchab.	pisces	19	9		4		
28	f	☽ n. R. sh Cep.	aries	3	9		20		
29	g	☽ n. Gird. And.	aries	17	9		36		
30	a	☽ n. luc. Cap. ♈.	taur.	0	9		52		
31	b	☽ n. so. foo. And.	taur.	12	10		12		

Moons Rising. | Moons Setting. | Its Rising.

Indifferent good weather 'tis hoped we may have at the △ ♃ ☿ beginning (therefore make Hay ✶ ☉ ♄ whilst the Sun doth shine; But after the New ✶ ♄ ☿ Moon we may expect frequent ☌ ☉ ☿ showers of ☌ ♂ ☿ Rain and various weather with ☌ ☉ ♂ Thunder □ ♃ ☿ and Lightning in many places; □ ♄ ♀ which being past, 'tis hoped that the latter part of the Month may □ ☉ ♃ afford us more pleasant and seasonable weather. □ ♃ ♂

Saturn *setteth between* 9 *and* 10 *at Night.*
Jupiter *sets about* 11 *at Night.*
Mars *is Combust.*
Venus *riseth about* 1 *in the Morning.*
Mercury *is hid, being under the Sun-beams.*

Engl. Accompt.	Rom. Accompt.	Rom. Kalendar.	Rom. Saints da.								
1	11	c	Pius	net cannot pass out of one	1	3	51	8	9
2	12	d	Henricus	Sign into another without	2		52		8
3	13	e	Margaret	such Clashing and Jum-	3		53		7
4	14		5 p. Trin.	bling, that we must be in	4		54		6
5	15	g	Swithin	a great measure sensible	5		55		5
6	16	a	Hyllario	thereof. Thus Mr. *Ra.* in	6		56		4
7	17	b	Alexius	his Vindication of Astro-	7		58		2
8	18	c	Maternus	logy, Chap. 6. There is	8	3	59		1
9	19	d	Ruffina	no man that hath any	9	4	0	8	0
10	20	e	Elias	knowledge in Astrology,	10		1	7	59
11	21		6 p. Trin.	but can affirm, that the	11		3		57
12	22	g	Mary Mag.	Weather will be Tempe-	12		5		55
13	23	a	Apollin	stuous, Stormy and Tur-	13		6		54
14	24	b	Christina	bulent, *Saturn* going out	14		7		53
15	25	c	St. James	of one Sign into another;	15		9		51
16	26	d	Anna	(yet I can affirm that we	16		10		50
17	27	e	Martha	seldom have a more calm	17		11		49
18	28		7 p. Trin.	and serene time, than we	18		13		47
19	29	g	Beatrice	had in *June* 1684. (when	19		14		46
20	30	a	Abdon	*Saturn* passed out of *Leo*	20	4	16	7	44
21	31	b	German	into *Virgo.*) And *Hermes*	21		17		43
22			Aug. Lammas	Cent. Aphor. the 33. *Sa-*	22		19		41
23	2	d	Moses	*turn* passing out of one	23		20		40
24	3	e	Dominic.	Sign into another causeth	24		22		38
25	4		8 p. Trin.	strange Apparitions in the	25		24		36
26	5	g	Oswaldus	Heavens, which the *A-*	26		25		35
27	6	a	Sixtus	*rabians* call *Assub*; or	27		27		33
28	7	b	Donatus	certain other Signs of a	28		29		31
29	8	c	Ladislaus	fiery Nature.	28		31	7	29
30	9	d	Roman.		30	4	33		27
31	10	e	Lawrence		31		35		25

New Moon the 9 day, 45 min. past 3 in the morning.
First Quarter the 16 day, at 6 at night.
Full Moon the 23 day, at 8 in the morning.
Last Quarter the 30 day, 30 min. past 3 afternoon.

1	☾	☽ S. past Trin.	taur.	25	10	30			
2	d	☽ n. Aldebar.	gem	7	10	56			
3	e	☽ n. Alhaiot	gem.	19	11	32			
4	f	☽ R. Sh. Aux.	canc.	1	12	15			
5	g	☽ n. Caſtor	canc.	13	0 M	15			
6	a	☽ n. Procyon	canc.	24	1	6			
7	b	☽ n. Aſelli	leo	6	2	5			
8	☾	10 paſt Trinity	leo	18	3	14			
9	d	☽ n. Ru. Urſ.ma.	virg.	0	New				
10	e	☿ ♍ 29	virg.	13	8 A	3			
11	f	♃ ♏ 16	virg.	25	8	17			
12	g	☽ ♐ 22	libr.	8	8	31			
13	a	☉ in Virgo	libr.	21	8	47			
14	b	♂ ♑ 23	ſcor.	4	9	6			
15	☾	11 paſt Trinity	ſcorp.	17	9	27			
16	d	☿ ♍ 29	ſagit.	0	9	50			
17	e	☊ ♊ 9	ſagit.	14	10	23			
18	f	☽ n. Cap.dra.	ſagit.	28	11	12			
19	g	☽ n. Can.vult.	capr.	13	12	27			
20	a	☽ n. luc. vult.	capr.	27	0 M	27			
21	b	☽ n.hi. w.Sw.	aqua.	12	1	39			
22	☾	12 paſt Trinity	aqua.	27	3	8			
23	d	☽ n. Marchab.	piſc.	12	Full	☾			
24	e	St. Bartholom.	piſc.	27	7 A	28			
25	f	☽ n. Head And.	aries	11	7	47			
26	g	☽ n. ✱ Arier.	aries	25	8	5			
27	a	☽ n.ſo.ſoo And.	taur.	8	8	23			
28	b	☽ n. ♀ Stars	taur.	21	8	42			
29	☾	13 paſt Trinity	gem.	3	9	7			
30	d	☽ n. Alhaiot	gem.	15	9	38			
31	e	☽ n. R. Sh. Aur.	gem.	27	10	17			

Moons Rising. — Moons Setting. — Moon Rising.

Windy and Cloudy Weather may be ✱ ☌ ☿ expected, yet moderately ſair ✱ ♃ ☿ and ſea- □ ♃ ☿ ſonable, all the former part of the Month without any conſiderable alteration, till about the 15th or 16th day, which probably may ♂ ♄ ☿ produce Winds and Rain, and variety of Wea- ✱ ♄ ☿ ther for ſome days, with ſome driſling Rain towards the Full Moon; afterwards good ſeaſonable Weather, with ſome briſk Winds, or elſe no great alteration till the end of the ✱ ☉ ♃ Month.

Saturn *setteth presently after the Sun.*
Jupiter *setteth about 9 at night.*
Mars *continueth under the Sun-beams.*
Venus *riseth between 1 and 2 in the morning.*
Mercury *sets after the Sun, and may be seen.*

Rom. Accompt.	Rom. Kalendar.	Rom. Saint. da.							
1	11		9 Sp. Trin.	But I am certain that there	1	4	37	7	23
2	12	g	Clara	often is more sensible al-	2		39		21
3	13	a	Hyppolit	teration in the Air at o-	3		41		19
4	14	b	Bertram	ther times, than when the	4		42		18
5	15	c	Assump. M	Planets are passing out of	5		44		16
6	16	d	Rochus	one Sign into another;	6		46		14
7	17	e	Agapite	yet, such Partition walls	7		48		12
8	18	f	10 p. Trin.	have they built betwixt	8		50		10
9	19	g	Sebaldus	Sign and Sign, and so	9	4	52	7	8
10	20	a	Bernard	strongly have they Barro-	10		54		6
11	21	b	Athanas.	cado'd the Passages by	11		56		4
12	22	c	Zimphor	the strength of their Ima-	12		58		2
13	23	d	Zachæus	ginations, that there is no	13	5	07		0
14	24	e	St. Bart.	passage, especially for the	14	5	16		59
15	25	f	11 p. Trin.	Superior Planets; but 'tis	15		3		57
16	26	g	Lewis K.	supposed we shall by one	16		5		55
17	27	a	Irenæus.	means or other have no-	17		7		53
18	28	b	Augustine	tice. And though many	18		8		52
19	29	c	Decol. J. B.	from such like Sonorous	19		10		50
20	30	d	Felix	nothings may raise Predi-	20		12		48
21	31	e	Paulinus	ctions, which to the Ti-	21		14		46
22	Sept.	f	12 p. Trin.	morous and Credulous	22		16		44
23	2	g	Rachel	may be as frightful as the	23		18		42
24	3	a	Euphem	Stories of Hobgoblings to	24		20		40
25	4	b	Theodore	Children, yet to the more	25	5	22	6	38
26	5	c	Zachary	Judicious it will but give	26		24		36
27	6	d	Magnus	occasion to laugh at and	27		26		34
28	7	e	Regina	deride, or at least to sus-	28		28		32
29	8	f	13 p. Trin.	pect the whole Act to be	29		31		29
30	9	g	Kunigur	meer forgeries and fancies.	30		33		27
31	10	a	Sosthenes		31	5	35	6	25

September hath xxx. days.

☽ New Moon the 7 day, at 6 at night.
First Quarter the 15 day, at 2 in the morning.
Full Moon the 21 day, at 7 at night.
☾ Last Quarter the 29 day, 20 min. past 10 in the morning.

1	f	☽ n. Syrius	canc.	9	11	6	Moons Rising.		
2	g	☽ n. Procyon	canc.	21	12	2			
3	a	☽ n. Asellus	leo	30	M	2		✱ ♀ ☿ Curious	
4	b	☽ n. Cor. leon.	leo	15	1	6		and pleasant weather	
5		past Trinity	leo	27	2	18		at the beginning	
6	d	♄ ♎ 2	virg.	9	3	3		hereof. And n.	
7	e	♃ ♏ 20	virg.	21				□ ♃ ♀ great Al-	
8	f	Nat. V. M.	libr.	46	A	47		teration is expected	
9	g	♂ ♐ 10	libr.	17	7	0		(but rather misty	
10	a	♀ ♑ 2 b	scorp.	0	7	18		Mornings and some	
11	b	☿ ♎ 15	scor.	14	7	35		small drisling) till	
12	c	☉ past Trinity	scor.	27	8	3		the 12th day, which	
13	d	Sol in Libra	sagit.	11	8	33		may perhaps bring	
14	e	♃ ♊ △	sagit.	25	9	16		some Wind and	
15	f	Ember Week	capr.	9	10	13	Moons Setting.	♂ ☉ ♄ Showers,	
16	g	☽ n. luc. Vult.	capr.	23	11	23		with cold Rain and	
17	a	☽ n hi. w. Sw.	aqua.	7	12	41		dark Cloudy wea-	
18	b	☽ n. lo. w. Sw.	aqua.	22	0	M 41		ther for some days,	
19	c	☉ ☌ ☿ past Trinity	pisces	6	2	8		♂ ☉ ☿ which with	
20	d	☽ n Marchab	pisce	21	3	46		brisk and cold Blasts	
21	e	St. Matthew	aries	5				of Wind, and now	
22	f	☽ n. Gird. And.	aries	19	6	A 14		and then some dris-	
23	g	☽ n. S.so Andr.	taur.	3	6	33	Moons Rising.	♂ ♄ ☿ ling Rain,	
24	a	☽ n. Cap. Med.	taur.	16	6	54		and such like wea-	
25	b	☽ n. Aldebar	taur.	29	7	18		ther may continue	
26	c	☉ ☍ ☾ past Trinity	gem.	11	7	45		without much Alte-	
27	d	☽ n. R. Sh. Aur.	gem.	23	8	20		ration to the Months	
28	e	☽ n. Syrius	canc.	5	9	7		end.	
29	f	St. Michael	canc.	17	10	0			
30	g	☽ n. Asellus	canc.	29	11	0			

Saturn *cannot be seen, being in Combustion.*
Jupiter *sets between 7 and 8 at night.*
Mars *toward the end of the Month emergeth from the Sun-Beams, and may be seen in the morning.*
Venus *riseth about three in the morning.*
Mercury *goeth to Combustion.*

Engl. Accompt.	Rom. Accompt.	Rom. Kalendar.	Rom. Saint da.							
1	11	b	Theobald.			15	37	6	23
2	12	c	Tobias	What can be more ridicu-		2	39		21
3	13	d	Amatus	lous than to tye that hot		3	41		19
4	14	e	Exal. Cru.	Season, which we usually		4	43		17
5	15	f	14 p. Trin.	have about the latter end		5	45		15
6	16	g	Euphem.	of *July* and beginning of		6	47		13
7	17	a	Lambert	*August*, (which is caused		7	49		11
8	18	b	Ferrialus	only by the advantagious		8	51		9
9	19	c	Jannarius	posture of the *Sun*, he		9	53	6	7
10	20	d	Fausta	having then been long		10	55		5
11	21	e	St. Matth.	near the Tropick of *Can-*		11	57		3
12	22	f	15 p. Tri.	*cer*, and thereby hath		12	5 59		1
13	23	g	Joel	heated the Earth) to the		13	6 1	5	59
14	24	a	Rupert	*Dog-Star*, which hath also		14	3		57
15	25	b	Cleophas	such great Latitude (for		15	5		55
16	26	c	Cyprianus	I am of that Opinion,		16	7		53
17	27	d	Judith	that distance in Latitude		17	9		51
18	28	e	Wenceslaus	will as well abate the		18	11		49
19	29	f	St. Michael	strength of the Influence		19	13		47
20	30	g	Jerome	of the Stars, as distance		20	6 15	5	45
21			Remigius	in Longitude,) what a sad		21	17		43
22	2	b	Leodegar	scorching time might we		22	19		41
23	3	c	Simplic.	have expected, if such a		23	21		39
24	4	d	Francisc.	wrathful Cur (as he is		24	23		37
25	5	e	Fides	supposed to be) had been		25	25		35
26	6	f	17 p. Trin.	placed as near the Eclip-		26	27		33
27	7	g	Spes	tick, as *Cor Leonis*,		27	29		31
28	8	a	Pelagia	*Spica Virginis*, or		28	32		28
29	9	b	Nicasius			29	6 34	5	26
30	10	c	Gedeon			30	36		24

October hath xxxi. days.

New Moon the 7 day, at 8 in the morning.
First Quarter the 14 day, at 7 in the morning.
Full Moon the 21 day, 15 min. past 7 in the morning.
Last Quarter the 29 day, at 7 in the morning.

1	a	☽ n. Asellus	leo	11	12		10	
2	b	☽ n. Cor. Leon.	leo	23	0	M	10	
3		☾ 20 past Trinity	virg.	5	1		23	☾'s Rising
4	d	☽ n. can. leo	virg.	18	2		36	
5	e	☽ n. Vindem.	libra	0	3		50	
6	f	☽ n. le. stio. Boo.	libra	14	5		12	
7	g	☽ n. luc. Coron.	libra	2	New ☾			
8	a	☽ n. S. Ballan.	scorp.	10	5	A	48	
9	b	☽ n. le. ha. Oph.	scorp.	2[illegible]	6		12	
10		☾ 19 past Trinity	sagit.	7	6		40	
11	d	☽ n. R. S. Oph.	sagit.	21	7		20	Moons Setting.
12	e	☽ n. luc. Lyræ	capr.	5	8		13	
13	f	Sol in Scorp.	capr.	19	9		19	
14	g	♄ ♎ 6	aqua.	4	10		38	
15	a	♃ ♏ 27	aqua.	18	12		0	
16	b	♂ ♎ 3	pisc.	2	0	M	0	
17		☾ 18 past Trinity	pisc.	16	1		27	
18	d	St. Luke	pisc.	29	2		53	
19	e	♀ ♎ 13	aries	13	4		18	
20	f	☿ ♎ 26	aries	27	5		44	
21	g	☊ ♊ 2	taur.	11	Full ☾			
22	a	☽ n. 7 Stars	taur.	24	5	A	23	
23	b	Term begins	gem.	7	5		46	
24		☾ 21 past Trinity	gem.	19	6		18	Moons Rising.
25	d	Crispin	canc.	1	7		0	
26	e	☽ n. Castor	canc.	13	7		49	
27	f	☽ n. Asellus	canc.	25	8		48	
28	g	St. Sim. & Jude	leo	7	10		0	
29	a	☽ n. Cor. leon.	leo	19	11		8	
30	b	☽ n. Ru. Urs. M.	virg.	1	12		18	
31		☾ 22 past Trinity	virg.	13	0	M	8	

Moist and dark ✱ ♃ ♂ weather, with cold Winds ✱ ♃ ♀ and frequent ☌ ♂ ♀ Showers of ☌ ♄ ☿ Rain, till after the *9th* day, then 'tis hoped we may have more pleasant weather for some short time; ☌ ♄ ♀ but it soon changeth to Cloudy and moist weather; which part we expect a moderate Season till after the Full Moon. Then we may probably ☌ ♄ ♂ have some cold Winds with Storms of Rain or Hail. But towards the end of the Month more calm and seasonable weather.

Saturn, Mars, *and* Venus *rise before the Sun, between four and five in the morning.*

Jupiter *followeth the Sun, and towards the end is hid by the Sun-beams.*

Mercury *riseth before the Sun.*

Engl. Accompt.	Dom. Accompt.	Rom. Kalendar.	Rom. Saints da.						
1	11	b	Burchard			16	37	5	23
2	12	c	Walfrid.			2	39		21
3	13	d	18 p. Trin.			3	41		19
4	14	e	Calixtus	*Cor Scorpionis*; But what		4	43		17
5	15	f	Hedwig	great heat do you think		5	45		15
6	16	g	Gallus	may be expected from		6	47		13
7	17	a	Florent.	him, when by the Pre-		7	49		11
8	18	b	St. Luke	ceſſion of the Equinox		8	51		9
9	19	c	Ptolomy	(if the World ſhould ſo		9	53		7
10	20	d	19 p. Trin.	long continue) he ſhall be		10	56		4
11	21	e	Urſula	placed as low as *Capri-*		11	6 58	5	2
12	22	f	Cordula	*corn*; will there then be		12	7 0	5	0
13	23	g	Severine	any ſuch Conſtellation to		13	2	4	58
14	24	a	Salome	be ſeen in this Horizon:		14	4		56
15	25	b	Criſpine	Or what Sultry heat do		15	6		54
16	26	c	Amandus	our *Antæci* feel at ſuch		16	8		52
17	27	d	20 p. Trin.	time as the Sun hath the		17	10		50
18	28	e	St. Sim. & Jud.	ſame Longitude with the		18	12		48
19	29	f	Narciſſus	*Dog*-Stars, may we not		19	14		46
20	30	g	Abſalom	reaſonably conclude, that		20	7 16		44
21	31	a	Wolfgang	they have their weather		21	18		42
22	Nov.	b	All Saints	then much like the wea-		22	19		41
23	2	c	Om. Anim.	ther we have in *January*		23	21	4	39
24	2	d	21 p. Trin.	and *February*. Yet ſo ex-		24	23		37
25	4	e	Modeſtius	travagant and ridiculous		25	25		35
26	5	f	Petronel	are ſome, that they have		26	27		33
27	6	g	Leonard	attributed that to the		27	29		31
28	7	a	Willibald	Stars which is wholly		28	31		29
29	8	b	Claudius	cauſed by the Sun.		29	33		27
30	9	c	Theodore			30	7 35		25
31	10	d	22 p. Trin.			31	36		24

November hath xxx. days.

☽ New Moon the 5 day, at 10 at night.
☽ First Quarter the 12 day, at 4 in the Afternoon.
☾ Full Moon the 19 day, 12 min. past 9 at Night.
☽ Last Quarter the 28 day, 30 min. past 3 in the morning.

1	d	All Saints	virg.	25	1	M	30	☽s Rising.
2	e	All Souls	libra	8	2		46	
3	f	♄ ♎ 8	libra	21	4		6	
4	g	♃ ♐ 1	scorp.	5	5		30	
5	a	Gun. Pow. Plot	scorp.	18	New			
6	b	♂ ♎ 17	sagit.	3	4	A	43	
7	☾	23 past Trinity	sagit.	17	5		18	
8	d	♀ ♏ 8	capr.	1	6		3	
9	e	☿ ♐ 0	capr.	16	7		4	
10	f	☊ ♊ 1	aqua.	0	8		22	Moons Setting.
11	g	Martin Ep.	aqua.	15	9		45	
12	a	Sol in Sagit.	aqua.	29	11		14	
13	b	☽ n. Marchab	pisces	12	12		40	
14	☾	24 past Trinity	pisces	27	0	M	40	
15	d	☽ n. Head And.	aries	10	2		0	
16	e	☽ n. p. ✱ Aries	aires	24	3		23	
17	f	☽ n so. Ho. And.	taur.	7	4		45	
18	g	☽ n. Cap. Med.	taur.	20	6		4	
19	a	☽ n. Aldebar.	gem.	2	Full			
20	b	☽ n. Alhaiot	gem.	15	4	A	12	
21	☾	25 past Trinity	gem.	27	4		47	
22	d	☽ n. Syrius	canc.	9	5		32	
23	e	☽ n. Procyon	canc.	21	6		27	Moons Rising.
24	f	☽ n. Aselli	leo	3	7		34	
25	g	☽ n. Cor. Hydr.	leo	15	8		43	
26	a	☽ n. Cor. Leon.	leo	27	9		54	
27	b	☽ n. R. Urs. Ma.	virgo	9	11		5	
28	☾	Advent S.	virg.	21	12		16	
29	d	Term ends.	libra	3	0	M	16	
30	e	St. Andrew.	libra	16	1		30	

No great alteration at the beginning hereof; but

Sun Eclipsed, invis.

about the New Moon expect a cold Stor- ☉ ☿ my and Turbulent season to begin, with plenty ☌ ♃ ☿ of cold Rain or Snow, afterwards more tempe- ☌ ☉ ☿ rate in respect of Cold; but Windy in genera-

Moon Eclipsed, vis.

till after the Full- ✱ ♃ ♄ Moon. Then 'tis hoped we may have a mild temperate Season and no great alteration till towards the end, which may perhaps produce ✱ ♂ ☿ some Winds.

Saturn *riseth between* 2 *and* 3 *in the morning.*
Mars *riseth about* 4 *in the morning.*
Venus *riseth a little before the Sun.*
Jupiter *and* Mercury *are Combust.*

Engl. Accompt.	Rom. Accompt.	Rom. Kalendar.	Rom Saints da.									
1	11	g	Martin Ep.	Thus *W. Ramsey* in his	17	38	4	22
2	12	a	Cunibert	fore-cited Vindication of	2	39		21
3	13	b	Eugenia	Astrology, Cap. the 6th	3	41		19
4	14	c	Frederick	telling us of Infirmities,	4	43		17
5	15	d	Leopoldus	and vehemency of heat	5	45		15
6	16	e	Otmarus	caused by the *Dog-Star*, and	6	46		14
7	17	f	[illegible] Trin.	offering to shew a Reason	7	48		12
8	18	g	Hezechias	why all Summers are not	8	49		11
9	19	a	Elizabeth	alike Contagious, he says,	9	51		9
10	20	b	Amos	it happens according to the	10	7	52	4	8
11	21	c	Obl. V. M.	Configurations of the Lu-	11	54		6
12	22	d	Cæcilia	minaries with the other	12	55		5
13	23	e	Clemens	Planets, and fixed Stars,	13	57		3
14	24	f	[illegible] Trin.	according to their Intensi-	14	58		2
15	25	g	Catherine	ons and remissions (and	15	8	0	4	0
16	26	a	Conradus	then thus absurdly goe-	16	1	3	59
17	27	b	Gunthetus	on) neither Cold nor Heat	17	3		57
18	28	c	Rufus	proceeding from the ab-	18	4		56
19	29	d	Saturn. F.	sence or presence of the	19	6		54
20	30	e	S. Andrew	*Sun*, as some weakly con-	20	7		53
21	Dec.	f	Advent S.	ceive; agreeing with that	21	8		52
22	2	g	Cardidus	fancy of (the so much ad-	22	9		51
23	3	a	Cassian	mired) *Paracelsus*, in his	23	10		50
24	4	b	Barbara	Book *de Meteoris*, Cap. 3.	24	11		49
25	5	c	Sabina	That the variety of the	25	8	12	3	48
26	6	d	Nicholaus	Altitudes of the *Sun*	26	13		47
27	7	e	Agathan	does not cause Sum-	27	14		46
28	8	f	2 Advent	mer and Winter, because	28	15		45
29	9	g	Joachin	the	29	15		45
30	10	a	Miltiades		30	16		44

● New Moon the 5 day, 30 min. past 9 in the morning.
☽ First Quarter the 12 day, at 1 in the morning.
○ Full Moon the 19 day, 30 min. past 5 at night.
☾ Last Quarter the 27 day, at 10 at night.

1	f	☽ n. luc. Coron	libr.	29	2		48			
2	g	☽ n ſon. Ball.	ſcorp.	12	4		10			
3	a	☽ n. le. Hz. Op.	ſcor.	26	5		38			♃ ♄ ♀ Cold and
4	b	☽ n Caph ea r	ſagit.	11	7		6			Frosty weather be-
5	☾	2 Advent	ſagit.	25	New ●			I		gins the Month, and
6	d	☽ n.luc. Lyræ	capr.	10	4	A	36			✱ ♄ ♀ very ſea-
7	e	☽ n.luc. Vult.	capr.	25	5		52			ſonable, with Snow
8	f	☽ n.le ſh. ♒	aqua.	10	7		14			or Sleet about thi
9	g	☽ n. Peg. Mou.	aqua.	25	8		42			□ ♄ ♀ time, alſo
10	a	♄ ♓ 11	piſces	9	10		14			Misty and Cl ſe a-
11	b	Sol in Capric.	piſces	23	11		38			bout the 9th day
12	☾	3 Advent	aries	7	12		55			and generally goo
13	d	♃ ♈ 10	aries	20	0	M	55			weather, and (the
14	e	♂ ♍ 11	taur.	3	2		16			Season conſidered)
15	f	Ember week	taur.	16	3		37			moderate in reſpect
16	g	♀ ♈ 26	taur.	29	4		54			of Cold, for the
17	a	☿ ♑ 26	gem.	11	6		10			moſt part till after
18	b	☊ ♂ 29	gem.	24	7		21			the Full Moon;
19	☾	4 S. Advent	canc.	6	Full ○					Then we may ex-
20	c	☽ n. Procyon	canc.	18	4	A	7			pect ſome more
21	d	St. Thomas	leo	0	5		7			Rough and Winter-
22	f	☽ n.Cor.Hydr.	leo	12	6		11			□ ☉ ♄ ly wea-
23	g	☽ n.Cor. Leon.	leo	24	7		20			✱ ♄ ♃ ther. But
24	a	☽. Ru.Ur. M.	virgo	6	8		34			'tis hoped not of
25	b	Nat. Chriſt.	virgo	18	9		49			long continuance —
26	☾	St. Stephen	libr.	0	11		4			yet we may again
27	d	St. John	libr.	12	12		21			probably have cold
28	e	Innocents	libr.	24	0	M	21			□ ♄ ♀ Winds and
29	f	☽ n.Son.Bulla	ſcorp.	7	1		40			frosty Air at the
30	g	☽ n.le.ha. Oph.	ſcor.	21	3		0			end.
31	a	☽ n.Cor. Scorp.	ſagit.	5	4		18			

Moons Setting.

Moons Rising.

Engl. Accompt.

Saturn *riseth betwixt* 12 *and* 1, *and is South between* 6 *and* 7 *in the morning.*
Jupiter *riseth before the Sun.*
Mars *riseth between* 3 *and* 4 *in the morning.*
Venus *is hid under the Sun-beams.*
Mercury *sets after the Sun.*

Engl. Accompt.	Rom. Accompt.	Rom. Kalendar.	Rom. Saints day.						
1	11	b	Damasius	the Sun has the same	1	8	16	3	44
2	12	c	Valerius	heat, be he higher or	2		17		43
3	13	d	Lucie V.	lower; but that there are	3		17		43
4	14	e	Nicasius	*Æstival* and *Hybernal* Stars	4		18		42
5	15	f	[illegible] Advent	that are the grand cause	5		18		42
6	16	g	Ananias	of those Seasons. But	6		18		42
7	17	a	Lazarus	what follows is more ab-	7		18		42
8	18	b	Christoph.	surd. If it may be, That	8		19		41
9	19	c	Loth	the absence of the Sun i	9		19		41
10	20	d	Amon	not the cause of Night,	10		19		41
11	21	e	St. Thom.	forasmuch as his light is	11	8	19	3	41
12	22	f	4 Advent	so great, that it may illu-	12		19		41
13	23	g	Dagoberr	minate the Earth all over	13		19		41
14	24	a	Ad & Eve	at once, as clear as broad	14		19		41
15	25	b	Christm.	day; but that there are	15		18		42
16	26	c	St Stephen	Tenebriferous or dark	16		18		42
17	27	d	St. John	Stars, by whose influence	17		18		42
18	28	e	Innocents	Night is brought on, for	18		18		42
19	29		Jonathan	that they do Ray out	19		17		43
20	30	g	David	darkness and obscurity	20		17		43
21	31	a	Sylvester	upon the Earth, as the	21	8	16	3	44
22			Jan. 1687. Circ.	Sun does light.	22		15		45
23	2	c	Abel	Thus have I given you	23		15		45
24	3	d	Enoch	an account of some of	24		14		46
25	4	e	Methusal.	those many wild Fancies	25		13		47
26	5	f	Simeon	which I could by no	26		13		47
27	6	g	Epiphany	means give the least credit	27		12		48
28	7	a	Julian	to, though they have with	28		11		49
29	8	b	Erhard	some been in so great e-	29		10		50
30	9	c	Marcel	steem.	30	8	9	3	51
31	10	d	Paul exec.		31		8		52

A Table shewing how many Years purchase a Lease or Annuity to endure for any number of Years under 33. is worth presently, at Interest upon Interest, at Six in the Hundred; and shewing plainly how to discount any Lease in Being, and the value of the Reversion after any number of Years.

Years of a Lease.	Years.	Months.	Tenth parts.
1	0	11	9
2	1	9	9
3	2	8	1
4	3	5	9
5	4	3	5
6	4	11	0
7	5	7	0
8	6	2	7
9	6	9	9
10	7	4	3
11	7	10	7
12	8	4	6
13	8	10	3
14	9	3	6
15	9	8	5
16	10	1	3

The Use and Explanation of the TABLE.

The first Column towards the left Hand sheweth the Years of a Lease, or Annuity, & right against each Year, is the Years, Months, & Tenth Parts of a Months Purchase, that such a Lease or Annuity is worth.

EXAMPLE.

Suppose a Lease or Annuity to continue 12 Years, and you would know how many Years purchase it is worth in present Money, look in the Table for Twelve Years of a Lease to the left Hand, & against the same you shall find, 8, 4, 6 which sheweth that such a Lease is worth eight Years four Months, & six Tenth Parts of a Months Purchase.

Years of a Lease	Years	Months.	Tenth parts.
17	10	5	8
18	10	9	9
19	11	1	3
20	11	5	7
21	11	9	3
22	12	0	5
23	12	3	6
24	12	6	6
25	12	9	4
26	13	0	0
27	13	2	5
28	13	4	9
29	13	7	1
30	13	9	2
31	13	11	1
32	14	1	0

AGAIN:

If you are to take or buy the Reversion of any Lease or Annuity, work thus; Suppose the Lease to be Thirty Years in all, you find in the Second Table and Right Hand against thirty, 13 Years, 9 Months, and 2 Tenth Parts of a Months Purchase; this it were worth were it in present Possession. But suppose there be a Lease of five Years (more or less) before you Commence, look in the Table against the five Years, and there you find four Years, two Months, five Tenth Parts of a Months Purchase; take this out of the Sum against thirty, which is, 13, 9, 2. The Remainder is, 9, 6, 7. which is 9 Years, 6 Months, and 7 Tenth Parts of a Month: And so much is the Reversion after five Years worth, the Remainder of thirty Years.

This is Useful, and very Easie.

SAUNDER. 1686.

The Second Part.

Containing the Calculations of the Eclipſes, The Suns Quarterly Ingreſſes; The Southing of the Seven Stars, for every 5*th.* day of this Year. With Rules and Tables for the meaſuring of Timber; With other things worth Obſervation.

The Characters of the Twelve Signs.

♈ Aries. ♉ Taurus. ♊ Gemini. ♋ Cancer. ♌ Leo. ♍ Virgo. ♎ Libra. ♏ Scorpio. ♐ Sagitary. ♑ Capricorn ♒ Aquarius. ♓ Piſces.

The Characters of the Planets, with the Dragons Head and Tail.

♄ Saturn. ♃ Jupiter. ♂ Mars. ☉ Sun. ♀ Venus. ☿ Mercury. ☽ Moon. ☊ Dragons Head. ☋ Dragons Tail.

The Aſpects.

☌ Conjunction. ⚹ Sextile. □ Quartile. △ Trine. ☍ Oppoſition.

A Brief Chronology of Memorable things to this Year, 1686.

Since
- The Creation of the World 5634
- *Noah's* Flood 3979
- The deſtruction of *Sodom* and *Gomorrah* 3588
- The deſtruction of *Troy.* 2868
- *Brute* entred this Iſland. 2793

Since

The Building of *London*	2793
The Building of *York*	2675
The Building of *Leiceſter*	2630
The Building of *Canterbury*	2578
The building of *Stamford*	2549
The building of *Rome*	2438
The deſtruction of *Jeruſalem* by *T. Veſ.*	1606
England firſt received the Chriſtian Faith	1506
The Tower of *London* built	1121
Duke *William* Conquered *England*	620
Weſtminſter-Hall was built	587
The Bible divided into Chapters	491
The Invention of Guns	308
The Art of Printing	246
St. *Pauls* Steeple fired by Lightening	125
New Star in *Caſſiopeia*	113
A great Snow fell *Feb.* 4.	108
Tilbury Camp on St. *James*'s day	98
A Plague in *London*, whereof dyed 30598	82
Gunpowder Treaſon, *November* 5.	81
A great Snow, and *Smithfield* paved	71
A great Plague in *London*, whereof dyed 35418	61
King *Charles* the Second born, *May* 29.	56
The Long Parliament began, *Nov.* 3.	46
King *Charles* the Firſt was Murdered	38
Two Comets appeared in *December* and *March*	22
The doleful Plague that followed them	21
London was burnt. *September* 2. 3, 4, 5,	20
The laſt great Snow	12
The wonderful Comet in *December*	6
A Comet in *Auguſt*	4
The terrible Fire in *Wapping*, *November* 19.	4
A great Earthquake, *October* the 6th.	3
The laſt great Froſt	2

Of the Eclipſes this Year.

FOur times in this year will the Inhabitants of this Terraqueous Planet, be ſubject to Luminarian obſcurity, (*i. e.*) twice the Sun, and twice the Moon will be Eclipſed from their ſight.

The

The first Eclipse is of the Sun, the 12th. day of *May*, about 15 minutes past 6 in the morning; but it is not visible to us, by reason of the Moons Parrallax (which to us is alwayes South) and Latitude, being both of one denomination; yet to the Southward parts of the World, where the Moons Parallax is North, it will appear a great Eclipse, *viz.* about the *Cape of good Hope*, and to such as sail from thence to *Hollandia Nova*, and *Vandiemans* Land, and about the Island called St. *Paul*, it will appear nearly Central.

The second Eclipse is of the Moon, the 27th. day of *May*, near 11 in the morning, and therefore invisible to us; but may be seen by our *Antipodes*, also at *Quinzay*, and to all parts lying between our *Antipodes* and the North Pole. The Moon will be darkened about ten digits.

The third Eclipse is of the Sun the 5th. day of *November*, near 10 at night, and therefore invisible to us; but it will appear a great Eclipse near *Sinus Mexicanus*, in *Nova Hispania*, *California*, and in *Mare Delzur*, about the Islands called *Los Mongos*, *La Vezina*, *La Desgraciada*, it will appear a Central Eclipse.

The fourth Eclipse is the 19th. day of *November*, about a quarter of an hour after 11 at night, it is a Lunar Eclipse, and visible to us, and there will be somewhat above half the Moons Body Eclipsed, the Calculation thereof take as followeth;

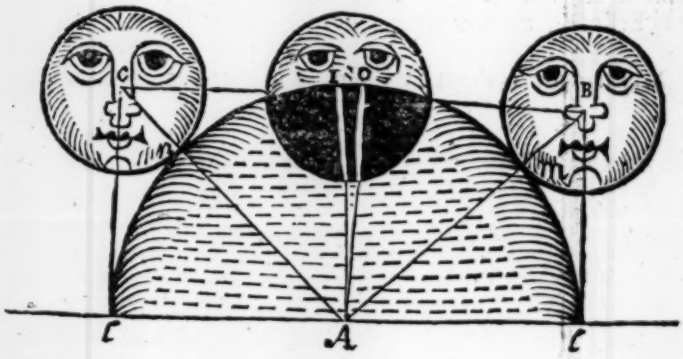
November the 19th. at 11 Hours, 8 Minutes, 10 Seconds.

		Deg.	Min.	Sec.
The place of the Sun is	♐	8	12	16
The place of the Moon is	♊	8	12	16
Node Ascending substract.	☋	0	21	38
Mean Argument of Latitude	☾	7	50	38
True Latitude North Asc.			40	53
Reduction Subs.			1	54
Time of Reduct. Add.			3	56
Correct time *November* 19. at 11 hours			12	06
Equation of time Adde			8	58
Difference of Meridians subs.			4	00
Apparent time at *Leicester*, at 11 Hours			17	04
Semidiameter of the Moon			15	41

		Min.	Sec.
Semidiameter of the Earths Shadow		42	41
Sum of the Semidiameters		58	22
Parts deficient		17	29
Digits Eclipsed are 6		41	42
Minutes of Incidence		41	40
Time of Incidence	1 Hour	26	18
Total duration	2	52	36
Interv. of the true ☌ and greatest Obscurat.		07	22
The beginning at	9 Hours	43	25
The middle at	11	09	43
True Opposition at	11	17	04
The end of the Eclipse at	12	35	01

Moons Latitude	at beginning	North Asc.	36	53
	at the end	North Asc.	44	53

A Type of the Eclipse.



In this figure the semicircle L m n L representeth part of the Earths shadow, A is the Center thereof, L A L the Ecliptick, B C the way of the Moon, A L, A m or A n the semidiameter

meter of the Earths ſhadow, B m or C n the ſemidiameter of the Moon, A B or A C the ſum of the ſemidiameters, B the place of the Moon at the beginning of the Eclipſe, entring the ſhadow at m, having then 36 minutes, 53 ſeconds, North Latitude, repreſented by the line B L. The diſtance of the lines A o and A i taken in the line B C ſheweth the interval of the true Oppoſition, and the greateſt Obſcuration, C the place of the Moon at the end of the Eclipſe, leaving the ſhadow at n, then having her North Latitude equal to C L 44 minutes, 53 ſeconds; The minutes of Incidence (being the ſpace that the Moon paſſeth from the beginning to the middle of the Eclipſe) are 41 minutes, 40 ſeconds, equal to the line B o, being half the line B C: And the time the Moon is paſſing thoſe minutes of Incidence, is 1 hour, 26 minutes, 18 ſeconds, which is the time of Incidence, the double whereof being 2 hours, 52 minutes, 36 ſeconds, is the total duration of the Eclipſe.

This Eclipſe only will be viſible to us, and it is not very great, however not Prodigious, therefore there is not the leaſt fear that it ſhould produce any prodigious effects: And now (hoping that my Countrymen by this time know better things, than to run with the Inhabitants of *Heraclea*, to the top of the higheſt Mountains, with Trumpets, and all the moſt ſhrill ſorts of Muſick, therewith to affright, and drive away that which diſturbed and darkened the Moon) all the fear will be, that there are 4 or 5 violent affixed Stars (ſome appearing near the Moon, others ſeeming to accompany her Oppoſers) that will be doing ſome miſchief, and make the effects of this Eclipſe more malevolent than otherwayes they would be, (or at leaſt the too too credulous may be apt to believe ſo) but as for *Aldebaran*, as near as he ſeemeth to be to the Moon, and though he be one of the Eyes of the great Bull, yet I will aſſure you that he is ſo far off, he cannot ſee this Eclipſe, neither knowes he any thing of the Moons being Eclipſed at this time, ſo that you need not fear him, or his Companions, doing the Moon or Us any more harm now, than they did when the Moon paſſed by them in *September*, and *October* laſt, and for *Cor Scorpionis*, and his Companions, we may expect as much from them as from *Aldebaran*; If the Weather ſhould prove windy and ſtormy about the time of this Eclipſe, it may be judged to be the effects of the many Oppoſitions of the Stars, rather than the

effects of the Eclipſe, eſpecially if it happen before the Eclipſe; neither do I think the Moon much more concerned at this Eclipſe, than at that which ſhe ſuffered on the 27 day of *May*, and I am almoſt of that opinion that our *Aſtrologers* are ſo modeſt, that they have not told you any terrible ſtories of any ſad effects that are like to be produced by that Eclipſe; Therefore I would not have you think that this Eclipſe will produce any worſe effects, than an Eclipſe which happeneth in ſome other part of the Heavens, far from the Conjunction or Oppoſition of ſuch violent Stars: Thus much of Eclipſes.

A Table ſhewing the Hour and Minute of the Seven Stars coming to South, every 5th day of this year, 1686.

Moneths	Dayes of the Moneth. 1		6		11		16		21		26	
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.
January	7	A 57	7	A 36	7	A 14	6	A 53	6	A 32	6	A 12
February	5	A 49	5	29	5	10	4	51	4	32	4	14
March	4	A 0	3	41	3	23	3	4	2	46	2	28
April	2	A 7	1	48	1	30	1	11	0	52	0	32
May	0	A 14	11	M 54	11	M 34	11	M 14	10	M 53	10	M 33
June	10	M 8	9	47	9	26	9	6	8	45	8	25
July	8	M 5	7	45	7	24	7	4	6	45	6	25
Auguſt	6	M 3	5	45	5	26	5	8	4	49	4	31
September	4	M 10	3	52	3	34	3	17	3	02	4	41
October	2	M 22	2	31	1	44	1	25	1	50	4	46
November	0	M 22	0	2	11	A 39	11	A 16	10	A 54	10	A 32
December	10	A 11	9	A 49	9	26	9	4	8	41	8	20

Of the Four Quarters of the Year, and firſt of the Spring,

WHich takes beginning this year upon *Wedneſday* the 10th. day of *March*, about 9 minutes paſt 2 of the Clock in the morning; the Sun then entering the firſt ſcruple of the Equinoctial Sign *Aries*, doth equalize day and night to all the World, (except under the *Poles*) now by that equal temper which

which the Air obtaineth, are the Pores of the Earth relaxed, whence evaporateth a vivifying fume, by whose ascent, by the cold and chillified Roots of Herbs and Plants, is their vegitable life produced. The nature of this Quarter is generally hot and moist, which if it should prove otherwise, it then bringeth sudden diseases, and noxious distempers. Such persons as are naturally Melancholly do enjoy their healths the best this Quarter; the Sanguine the contrary; Youth and Childhood are inclinable to many distempers, but Age is vivacious and lively. Those diseases that proceed from excess, and putrefaction of Blood, are most dangerous, but those that have their original from Melancholly are less noxious. In the Moneth of *March* use such meats or medicines as purge and sweeten the blood; but be not too busie in purging, or in bleeding this moneth, yet to bathe is good. In *April* you may freely bleed or bathe, if there be occasion; also to purge the stomach by potion, or otherwise, is very good: But drink moderately, for 'tis the most dangerous time of all the year for excessive drinking, and as much as may be forbear all salt meats. In *May* you may upon occasion purge gently the Body, or Blood, or open a Vein; to drink clarified Whey is very wholesome, but forbear drinking of Wine, as also eating such meats as are of a hot quality.

Of Summer.

SUmmer Quarter this year begins the 11th. day of *June*, 42 minutes past 4 in the morning; the Sun then entering the Tropical Sign *Cancer*, doth make the longest day, and shortest night, to all the Inhabitants on this side the Equator: The natural Constitution of this Quarter is hot and dry, sympathizing with Choler and Melancholly, persons of Phlegmatick Constitutions are best in this Summer Quarter, the Cholerick the contrary; now ancient people revive, but young people languish, through the excess of Blood and Choler, with which they abound, and are much exposed thereby to Feavers, especially the Tertian, and those diseases are more dangerous which proceed from blood and choler, than those that arise from blood and flegm. In the Moneth of *June* abstain from such meats as do ingender crude, raw and moist humours: Now a cup of good White-wine taken fasting doth purge Choler, and offensive humours

from the Stomach. Eat and drink moderately, and let your meats be such as are easily concocted. In *July* neither Bleed nor Purge, unless there be great necessity. In this and the next Moneth refrain immoderate exercise, and venery, and drink but little Wine; beware of eating such meats as ingender Melancholly, and of taking cold.

Of Autumn.

WHich this year begins the 12th. day of *September*, about 2 minutes after 8 at night, at which time the Sun entering the Equinoctial Sign *Libra*, doth again make equal day and night. This Quarter naturally is cold and dry, resembling Melancholly; Youth is now lively, but Aged persons languish, persons of moist and phlegmatick constitutions are best in health, but melancholly the contrary. In *September* eat moderately of all such meats and fruits as your Stomach desires, for they are now in their vigour and perfection. In this Moneth and the next you may bleed or purge if there be occasion, but in *November* melancholly increaseth, and blood decreaseth; bathing is not good, to vomit sometimes may do well, but beware of taking cold.

Of Winter.

WInter Quarter beginneth this year *December* the 11th. 4 minutes past 8 in the morning, the Sun then entering the first scruple of the Tropical Sign *Capricorn*, doth thereby make our shortest day and longest night. This Quarter is cold and moist, Youth therefore and Cholerick persons are best in health, but Aged and Phlegmatick the contrary. In *December* Melancholly and Phlegm do much increase: Therefore keep warm, and eat such meats as are of a hot quality, neither bleed nor purge in this Moneth or the next; but in *February* you may if there be occasion, as also bathe, or take potions, if need require.

Here followeth some few Rules and Tables for the Mensuration of Superficies and Solids.

FOR the mensuration of superficial, or flat measure, such as Board, Glass, Pavement, Hangings, &c. it will be necessary

ceſſary to know how to meaſure any plain ſuperficial figure, as the Square, Long-ſquare, or Parallelogram, Triangle, Circle, parts of the Circle, &c. examples of all which do here follow.

I. *How to Meaſure a Square.*

Let there be a ſquare floor, or pavement, the ſides whereof are each of them 5 feet 6 inches, and it is required to know how many ſquare, or ſuperficial feet are contained therein. Firſt (a good plain way to avoid Fractions will be to) Reduce the whole ſide into inches, 5 feet, 6 inches, being 66 inches, multiply 66 by 66, and the Product will be 4356, the Superficial Content in inches; then divide 4356 by 144 (the ſquare inches in one foot) and the Quotient will be 30 feet, and 36 inches remaining, which is the number of inches in one quarter of a foot; ſo that in ſuch a ſquare is contained 30 feet and one quarter. See the Margin.

66
66
396
396
4356
4356
144
(30
432
36

II. *To meaſure the Long-ſquare or Parallelogram.*

Suppoſe there be a Pavement whoſe length is 72 feet, and breadth 12 feet, how many feet is contained therein.

Multiply 72 the length, by 12 the breadth, and the Product will be 864, and ſo many ſuperficial feet are contained in that Pavement.

72
72
144
12
864

III. *To Meaſure a Long Superficies, which is broader at one end than at the other.*

Let there be a ſuperficies whoſe length is 72 inches, the breadth of the great r end 50 inches, and the breadth of the leſſer end 34 inches, and let it be required to know how many feet are contained therein. Firſt, add the breadths of both the ends together, which maketh 84, take half thereof, which is 42, which being multiplyed by 72 the length, the Product will be 3024 the Content in inches, which being divided by 144 (the inches in one

72
42
144
288
3024
144
288 (21
144

one foot) the Quotient will be 21 feet, and nothing remaining, ſo that there is exactly 21 feet in ſuch a ſuperficies.

IV. *How to Meaſure Triangles.*

All Right lined Triangles are meaſured by this general Rule.

Multiply half the length of the Baſe by the whole Perpendicular. Or, the whole length of the Baſe by half of the Perpendicular.

Suppoſe the Baſe of a Triangle be 44, and the Perpendicular 26, what is the Content.

Multiply 44 (the Baſe) by 13, (half the perpendicular) the Product will be 572 : Or 22 (half the Baſe) being multiplyed by 26, (the whole perpendicular) the Product will be 572, as before, which is the Content of ſuch a Triangle.

V. A'l *Trapezias*, or figures with four unequal ſides ; alſo Multangular, or many ſided irregular figures, muſt be divided into Triangles, and thoſe Triangles meaſured as before is taught, and their ſums added together will give the Content of ſuch irregular figures. And note, that the leaſt number of Triangles, into which any plot or irregular figure may be reduced, will be leſs by two than the number of the ſides of ſuch irregular figures

VI. *How to Meaſure Circles, and parts of Circles.*

The Diameter of every Circle hath ſuch proportion to the circumference of the ſame Circle as 7 hath to 22. Therefore the Diameter being given to find the circumference, you muſt multiply the Diameter by 22, and the Product being divided by 7, the Quotient will be the circumference. Thus, ſuppoſe the Diameter of a Circle be 14, multiply 14 by 22, the Product will be 308, which being divided by 7, the Quotient is 44, being the circumference of that Circle whoſe Diameter is 14.

Having the Circumference to find the Diameter.

Multiply the circumference given by 7, the product divide by 22, and the Quotient will be the Diameter. Let the circumference of a circle be 60, multiply 60 by 7 the product will be 420, which being divided by 22, the Quotient will be 19, and $\frac{2}{22}$, or $\frac{1}{11}$ which is the Diameter.

To find the Area or Superficial content of a circle. Multiply half the circumference by half the Diameter, the product

is

the content of the circle: Thus, Let the circumference be 90, the half whereof is 30, and the Diameter $19\frac{2}{22}$ the half whereof is $9\frac{1}{22}$, by which multiplying 30, the product will be $286\frac{4}{7}$ which is the superficial content of such a circle; or,

By the Diameter to find the Area of the circle. First, square the Diameter, multiply the square by 11, and divide the product by 14, the Quotient is the superficial content of the circle.

Let the Diameter be as above $19\frac{1}{11}$ the square whereof is $364\frac{6}{121}$ this multiplyed by 11 produceth $4009\frac{1}{11}$ which being divided by 14 the Quotient is $286\frac{4}{11}$ as above, being the superficial content of such a circle.

To Measure the superficial content of half the circle, the quarter of a circle, or of any other section of a circle, more or less, having the semidiameter given.

Multiply half of the compass thereof by the semidiameter of the circle, so shall you have the content.

Of the Mensuration of Solids.

AS Plain or Superficial Measure consisteth of two dimensions, namely, length and breadth; so Solid measures consisteth of three dimensions, namely, length, breadth and thickness.

To Measure any kind of Timber, either Square, Triangular, Round, or of any other Fashion, provided it be straight and equal all along.

Cast up the superficial Content at the end thereof, by the rules before going, for the finding the Content of the Square, Triangle, Circle, *&c.* which Superficial Content being multiplyed by the length of the Piece, will give you the Solid Content thereof. *Example.* Let there be a piece of Timber, (or other solid matter) whose breadth is 18 inches, its depth 13 inches, and length 142 inches, to find how many solid feet are contained therein. First, multiply the breadth 18 by the depth 13, the product is 234, being the superficial inches at the end of the piece. Secondly, multiply this 234 by 142 the length of the piece, and the product will be 33228 the solid Content

in

in inches. Thirdly, divide 33228 by 1728, (being the number of Cubical inches in one solid foot) and the Quotient will be 19, and 396 inches remaining, which is 19 solid feet, and almost one quarter of a foot, and so much is the solid content of such a piece.

A second Example of a Round Piece. Let there be a Round piece of Timber whose compass is 60 inches, and the length 20 feet, (or 240 inches) and let it be required to find the solid Content thereof. First, by the help of the circumference 60 find the Diameter (as before is taught) by multiplying 60 by 7 and dividing the product thereof by 22, so shall you find the Diameter to be $19\frac{1}{11}$: Then by either of the ways before taught, *viz.* by multiplying half the Circumference by half the Diameter; or by (squaring, or) multiplying the Diameter in itself, and multiplying that Square by 11, and dividing the product by 14, the superficial content of the end of such a piece will be found to be $286\frac{4}{11}$ inches. Now multiply this $286\frac{4}{11}$ by the length of the piece 240, and the product will be $68727\frac{3}{11}$ the Content in Inches, which being divided by 1728, the Quotient will be 39 feet, and 3 quarters of a foot, and $39\frac{3}{11}$ inches remaining, which is the Solid Content of such a piece of Timber.

But had this piece of Timber been measured by that egregiously false way of taking the fourth part of the Girt for the side of the Square equal, it would have been found to be but 31 feet, and one quarter of a foot, which is above one fifth part less than the truth, it being 39 feet, and above 3 quarters.

Such was (as in this Example) both the Circumference, the Length, and consequently the Content of that piece of Timber, by which that great Detractour *Sam. Sturges* (that his wit might be sure not to exceed his malice) hath taken occasion to rail of, and in so gross a manner to abuse me, wherein he hath sufficiently declared to the World his own Ignorance and Envy. But this *Obiter*.

Of the Mensuration of Tapering Timber, either Round or Squared, such as Frustums of Cones and Pyramids.

FIrst, find the superficial Area of each end of the piece, and multiply the one Area by the other. Secondly, out of the

product of the two Area's, extract the Square Root. Thirdly, add this Root and the two Area's all into one sum. Lastly, multiply this sum by one third part of the length of the piece, and that product shall give you the Content.

Let there be a piece of Timber whose Circumference at the greater end is 66 inches, at the lesser end 44 inches, and the length 20 feet, and it is required to find how many solid feet is contained therein. First, the Area of the Circle at the greater end (by multiplying half the Circumference 33 by half the Diameter $10\frac{1}{2}$) will be found to be $346\frac{1}{2}$, and the Area of the Circle at the lesser end will be 154: These multiplyed together do produce 53361. Secondly, out of this product extract the Square Root, which is 231, (for 231 being multiplyed by it self produceth 53361). Thirdly, add the two Areas, and the Square Root 231 together, and the sum of them will be $731\frac{1}{2}$. Lastly, multiply $731\frac{1}{2}$ by 80 inches, (one third part of the length) and the product will be 58520, being the solid inches contained therein, which inches being divided by 728, the Quotient will be 33 feet, and 1496 inches remaining, which is 3 quarters of a foot, and almost half a quarter.

To find the Content of Tapering Timber, other ways than is taught above.

These pieces being parts of Cones or Pyramids, their Contents may be found by seeking the Content of the whole Cone or Pyramid, (of which they are part) and the Content of that part which is wanting, for that part being substracted from the whole, the remainder must be the Content of the part required.

Now the way to find the content of a Cone or Pyramid is, to multiply the superficial Content of the Base by one third part of the length; and to find the length of the top part of a Cone or Pyramid which is wanting; say thus, as the difference of the sides, or Diameters of the two ends, to the length between them; so is the side, or Diameter of the greater end, to the whole length. *Example*, of the piece before mentioned, whose greater end is 66 inches about, and the lesser end 44; hence the Diameter of the greater end will be 21, and the Diameter of the lesser end will be 14, and their difference is 7, therefore say, if 7 give 20 feet what will 21 give; Answer, 60 feet, being the whole length of the Cone, now the superficial

content

content of the Base of this Cone, (being 346 inches) multiplyed by 240 inches, (one third part of the length of the whole Cone) produceth 83160 inches, the content of the whole Cone. And the superficial content of the lesser end, (which is the Base, of the top (or wanting) part of the Cone) which is 154, being multiplyed by 160, (one third part of the length of the top (or wanting) part) produceth 24640 inches, the content of the wanting part, which being substracted from 83160, (the content of the whole Cone) the remainder is 58520 inches, the content of the part required, being the same as before.

Here followeth Tables ready calculated, for the Measuring of Squared or Round Timber, which is supposed to be equal all along: Their use is thus, seek the side of the Squared, or compass of the Round Timber, in the first, third or fifth columns of the Tables, and against it, in the next column you have the length of a solid foot. Thus, the side of a squared piece of Timber being 20 inches, the length of a solid foot will be 4 inches, and 3 tenth parts of an inch: And the compass of a round piece, being 80 inches th: length of a solid foot will be found to be 3 inches, and 39 hundredth parts of an Inch.

A Table, shewing how much in length will make a Solid foot, of any Square Stone or Timber: The side of the Square being given in inches, from one inch to 36 inches square.

Side of the Square.	Length of a solid foot.			Side of the Square.	Length of a solid foot.		Side of the Square.	Length of a solid foot.	
Inch.	Inc.	10th.		Inch.	Inc.	10th.	Inch.	Inc.	10th.
1	144	0	0	13	10	2	25	2	8
2	36	0	0	14	8	8	26	2	6
3	16	0	0	15	7	6	27	2	3
4	9	0	0	16	6	7	28	2	2
5	5	9	2	17	5	9	29	2	1
6	4	0	0	18	5	3	30	1	9
7	2	11	1	19	4	8	31	1	8
8	2	3	0	20	4	3	32	1	7
9	1	9	3	21	3	9	33	1	6
10	1	5	3	22	3	5	34	1	5
11	1	2	3	23	3	3	35	1	4
12	1	0	0	24	3	0	36	1	3

Table shewing how many inches in length will make a foot solid, of any round piece of Timber or Stone, the Girt being known, from 12 inches compass to 100.

Com.	len. of a foot	
Inch.	Inch.	100 p.
11	179	46
12	150	80
13	128	49
14	110	79
15	94	31
16	84	82
17	75	14
18	67	02
19	60	15
20	54	29
21	49	23
22	44	86
23	40	90
24	37	69
25	34	74
26	32	12
27	29	79
28	27	70
29	25	82
30	24	13
31	22	60
32	21	21
33	19	92
34	18	78
35	17	74
36	16	76
37	15	86
38	15	04
39	14	28
40	13	57

Com.	len. of a foot	
Inch.	Inch.	100 p.
41	12	92
42	12	31
43	11	74
44	11	31
45	10	72
46	10	26
47	9	83
48	9	42
49	9	04
50	8	69
51	8	35
52	8	03
53	7	73
54	7	42
55	7	18
56	6	92
57	6	68
58	6	45
59	6	24
60	6	03
61	5	84
62	5	65
63	5	47
64	5	30
65	5	14
66	4	98
67	4	84
68	4	70
69	4	56
70	4	43

Com.	len. of a foot	
Inch.	Inch.	100 p.
71	4	31
72	4	20
73	4	08
74	3	97
75	3	86
76	3	76
77	3	66
78	3	57
79	3	48
80	3	39
81	3	31
82	3	23
83	3	15
84	3	08
85	3	01
86	2	94
87	2	87
88	2	80
89	2	74
90	2	68
91	2	62
92	2	57
93	2	51
94	2	46
95	2	41
96	2	36
97	2	31
98	2	26
99	2	22
100	2	17

Advertiſements.

Arts Mathematical Profeſſed and Taught by the Author.

ARithmetick, *in whole Numbers, and in Fractions; in Decimals, and by Logarithmes; Inſtrumental by Decimal Scales,* &c. Geometry: *The uſe of ſeveral Geometrical Inſtruments in the practice of* Longimetria, *as the Meaſuring of heights, depths, diſtances of Towirs, Trees, Caſtles, Forts,* &c. *either acceſſible or inacceſſible: Planometria, as the Meaſuring of Board, Glaſs, Pavement, Tyling, or any Superficial Meaſure: Stereometria, as the meaſuring of Stone, Timber, Caſk, commonly called Gauging; Geodæſia, or the Meaſuring of Land divers ways, and by ſeveral Inſtruments.* Trigonometry, *or the Meaſuring of Triangles, both Plain and Spherical, with the Application thereof in the ſolution of ſeveral Problems in Geometry, Aſtronomy, Geography, Navigation, Fortification and Dyalling.* Aſtronomy, *the uſe of Globes, Celeſtial and Terreſtrial: The Calculation of the Places of the Planets, and alſo Eclipſes for any time paſt, or to come.* Horologigraphy, *or Dyalling, Geometrically, by Scales and Compaſſes; Arithmetically, by Tables of Sines and Tangents: Inſtrumentally, by Globes, Sectors, Scales,* &c. *The Author is ready to ſerve any that ſhall be pleaſed to make uſe of his pains in the practice of any of the forementioned Arts.*

From Ouſton *in* Com. Leiceſter,
Aug. the 14th. 1685.

Ruptures or Broken Bellies.

PResent help for Men, Women or Children, *by a Traveller famous in* Germany *and other Countries for his practice this five and twenty Years; and maketh all ſorts of Truſſes eaſie, none ſuch made in* England, *as theſe be found by experience. He helps thoſe at a diſtance, as well with Directions, as thoſe in* London, *and helps thoſe that cannot hold their water, or bearing down in their Privy parts, and maketh ſtrait Stockins. The Poor have advice for nothing, Take it in time. By* R. Collins. *From Nine to Twelve at the* Bell *and* Naked Boy *on the Ditch ſide at* Fleet-bridge: *The Afternoon at the* Bell *in St.* Jamſes *Court in* Clerkenwel *Pariſh*

FINIS.